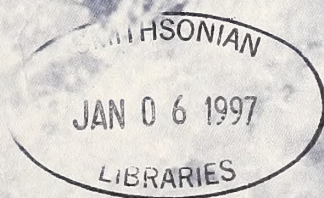


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# Nile Delta Drill Core and Sample Database for 1985–1994: Mediterranean Basin (MEDIBA) Program

DANIEL JEAN STANLEY,  
JAMES E. McREA, JR.,  
and  
JOHN C. WALDRON



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Nile Delta Drill Core and  
Sample Database for 1985–1994:  
Mediterranean Basin  
(MEDIBA) Program

*Daniel Jean Stanley, James E. McRea, Jr.,  
and John C. Waldron*

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## ABSTRACT

Stanley, Daniel Jean, James E. McRea, Jr., and John C. Waldron. Nile Delta Drill Core and Sample Database for 1985–1994: Mediterranean Basin (MEDIBA) Program. *Smithsonian Contributions to the Marine Sciences*, number 37, 428 pages, 10 figures, 2 tables, 1996.—This document is designed to serve as the catalog for a complete set of lithologic logs of 87 sediment borings drilled in the northern Nile delta of Egypt in the course of the Nile Delta Project, from 1985 to 1994. The project, part of the Mediterranean Basin (MEDIBA) Program, was initiated to interpret the recent geological evolution of this depocenter, from the time of its formation about 8000 years ago to the present. The data set includes the major petrologic attributes of these borings, which range in length from ~20 to 60 m. The results of textural and sand-sized compositional analyses of 2500 core samples are provided, as well as the ages of 358 radiocarbon-dated samples to as old as ~35,000 years before present. These data constitute the foundation of the Nile Delta Project's investigation. A review of the methods employed in the field and laboratory and an inventory of published articles and theses completed through 1994 as part of this multidisciplinary and multinational effort also are presented. This database facilitates the distinction between anthropogenic and natural factors that determine the evolution of the delta. It is intended to provide a comprehensive record of subsurface deposits in the northern delta, accumulating in late Pleistocene to Holocene time, to be used by those agencies and specialists responsible for monitoring the rapidly changing Nile delta depocenter.

The information published in this document is accessible electronically on the Internet from the Smithsonian Institution's National Museum of Natural History Gopher Server at URL "gopher://nmnhgoph.si.edu/11/.paleo" or via hypertext document (http) at "http://nmnhwww.si.edu/gopher-menus/." Further information can be obtained from the National Museum of Natural History's Collection and Research Information System (CRIS) Program, Washington, D.C. 20560.

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# Nile Delta Drill Core and Sample Database for 1985–1994: Mediterranean Basin (MEDIBA) Program

*Daniel Jean Stanley, James E. McRea, Jr.,  
and John C. Waldron*

## Introduction

Modern marine deltas are vital agricultural and aquacultural resources for the world's rapidly growing population. These coastal depocenters are generally low-lying and thus highly vulnerable to natural environmental changes, such as global sea-level oscillations and vertical displacement of land relative to sea level. Most of the world's large deltas are subsiding, largely as an isostatic response to loading by thick depositional sequences and their compaction. Thus, even if global sea level were not to rise in the future, the lower plains and coasts of deltas are particularly prone to incursion by the sea, which will induce land loss and reduce agricultural productivity at a time when it is most needed. The situation will be substantially aggravated if global sea level should rise, as predicted by some for the next century (Wigley and Raper, 1992).

Until recently, surprisingly little research pertaining to deltas has focused on differentiating the effects of global rise in sea level from those of lowering of land by isostasy, tectonism, and sediment compaction. This problem is of considerable concern,

particularly in view of the increased effects of humans on world river and coastal systems. For example, emplacement of dams, diversion and dredging of river channels, intensification of agricultural projects, construction of increasingly complex and dense irrigation systems, and modification of coastlines are producing unexpected and frequently deleterious side-effects in deltaic areas. Coastal management reports on deltas all concur that this interaction of natural and anthropogenic factors is presently inducing accelerated changes in delta plains and coasts (Kay, 1993), and that these environments now require more active monitoring by scientists and engineers. Geologists can play a valuable role in this type of environmental monitoring in that they are trained to map and evaluate changes in time and space. Moreover, they are adept in using a multidisciplinary approach that integrates stratal geometry and petrologic, biological, and chemical information (Broussard, 1975; Coleman, 1982; Posamentier and Vail, 1987; Stanley and Warne, 1993a).

It is recalled that the Nile delta, positioned in a desert environment on the northeastern African margin, was one of the first such depocenters to attract the attention of scholars interested in recording deltaic phenomena. In the mid-fifth century B.C., the Greek historian Herodotus called attention to some general sedimentological aspects of the Nile delta, and to its triangular shape giving rise to the term "delta" to denote this type of geographical feature. Despite this early interest, no systematic, comprehensive geological and environmental study of the Nile delta had been undertaken prior to the end of this century.

A project to define the late Quaternary geological evolution of the lower Nile delta plain of northern Egypt, taking into account both natural and anthropogenic factors, was thus initiated in 1985 at the National Museum of Natural History,

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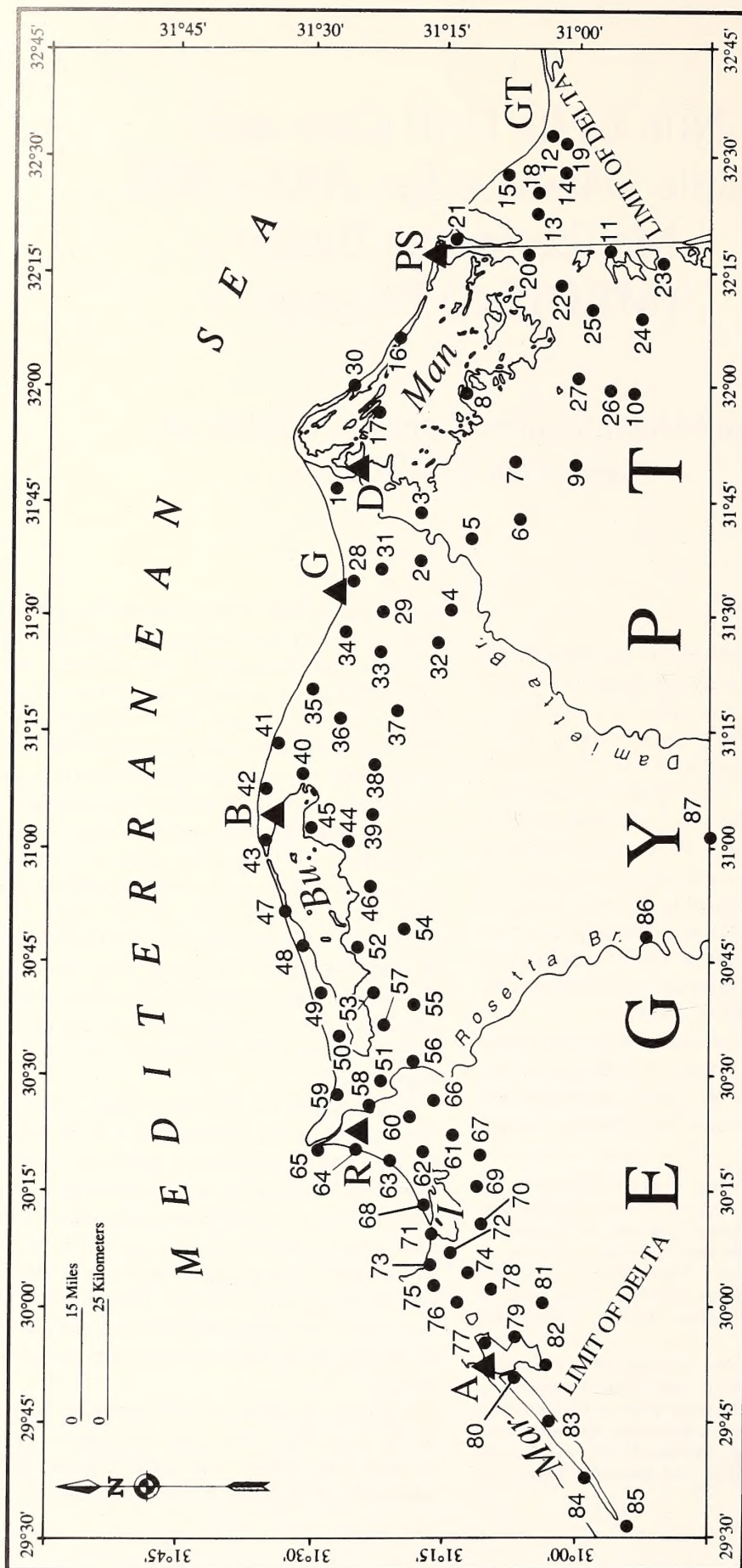


FIGURE 1.—Northern Nile delta of Egypt, showing positions of the 87 Smithsonian sediment boring sites. Also denoted are the four coastal lagoons (Bu = Burullus; I = Idku; Man = Manzala; Mar = Mariut), two main Nile distributaries (Damietta and Rosetta branches), and their promontories. Northern delta and coastal cities include the following: A, Alexandria; B, Baltim; D, Damietta; G, Gamaasa; PS, Port Said, the Mediterranean port on the Suez Canal in the northeastern delta; and R, Rosetta.



Smithsonian Institution. The Nile delta depocenter was specifically selected for several reasons: (1) this delta is the major breadbasket for Egypt, where the population is now approaching 60 million; (2) Egypt's already limited percapita arable land has declined steadily to about 0.06 ha, now the lowest figure of any country in Africa (Biswas, 1993); (3) the delta's northern sector is near (elevation of little more than 1 m) and in some areas below sea level, and thus it is particularly vulnerable to even small changes of sea level; (4) the delta has long been occupied, cultivated, and modified by humans (Butzer, 1976; Stanley and Warne, 1993b); and (5) its fluvial regime has been completely altered since the beginning of the century by intensified irrigation projects and emplacement of two dams at Aswan and also a series of barrages along the Nile from upper Egypt to near the Mediterranean coast (Waterbury, 1979).

Following closure of the High Aswan Dam in 1964, numerous studies have focused on increased problems related to land reclamation (Waterbury, 1979; Biswas, 1993) and erosion of the Nile delta coast (UNDP/UNESCO, 1976, 1977, 1978; Abdel-Kader, 1982; Frihy, 1988; Smith and Abdel-Kader, 1988). Recent changes offshore (Stanley and Maldonado, 1977; Maldonado and Stanley, 1978; Coleman et al., 1981; Frihy and Lotfy, 1994), including those in the northern sector of the Suez Canal that crosses the northeastern delta (Morcos and Messieh, 1973; Stanley et al., 1982; Gerges and Stanley, 1985), have also been considered. It is of note, however, that as recently as the early 1980s, no systematic analyses had been made of the recent geological history of the landward part of the delta.

In 1983, the senior author was invited to Egypt to assess the possibility of initiating a long-term geological study of the Nile delta and its evolution from latest Pleistocene to Holocene time. The Nile Delta Project was formalized and officially initiated in early 1985, and for ten years it became the major activity of staff and visiting scientists participating in the Mediterranean Basin (MEDIBA) Program. Throughout this period, the project was directed from the United States' National Museum of Natural History, Smithsonian Institution, in Washington, D.C., and involved the cooperation of Egyptian scientists at the Coastal Research Institute in Alexandria, the Ain Shams University in Abassiya, Cairo, and the University of Cairo. More than 40 scientists from North America, Egypt, Europe, and Asia have been part of the Nile Delta Project team.

To interpret the late Pleistocene and Holocene history of the northern Nile delta, including its coastal plain, lagoons, marshes, and strandline, the project emphasized study of a series of radiocarbon-dated sediment cores. A large number of borings were recovered from drill sites established across the northern delta (Figure 1), enabling us to interpret sedimentary facies and evaluate their changes in time and space by study of the petrology, geochemistry, fauna, and flora of approximately 3500 core samples. Remote sensing and archeological data were also used in this project. As a direct result of this joint effort, 52 articles have been published in scientific journals, 7

theses have been completed, and 25 presentations have been made at scientific meetings by the end of 1994.

A synthesis article summarizing the salient aspects of the late Quaternary history (the past ~30,000 years are considered) of the northern Nile delta, based in large part on the study of the numerous core samples, was recently published (Stanley and Warne, 1993a). The present monograph serves as a companion document and detailed data source to this synthesis and also to earlier project publications. Its main purpose is to present a complete set of simplified lithologic logs of the 87 sediment cores (Appendix 1) and the results of textural and sand-size compositional analyses of 2496 core samples (Appendix 2) that constitute the foundation of Nile Delta Project investigations. We also provide herein a brief review of the various methods employed, and an inventory of specific topics and interpretations published in scientific journals and as theses derived from these and other data collected as part of the project during the past 10 years. The present document is thus intended to provide a comprehensive database for the northern Nile delta during the late Pleistocene to Holocene that may be used by those responsible for monitoring changes in the rapidly evolving Nile delta depocenter.

To facilitate data computer exchange and distribution, all the information published in this document (~75 megabytes) is accessible to users of the Internet from the Smithsonian Institution's National Museum of Natural History Gopher Server at URL "gopher://nmnhgoph.si.edu/11/paleo" or via hypertext document (http) at "http://nmnhwww.si.edu/gopher-menus/." Further information can be obtained from the National Museum of Natural History's Collections and Research Information System (CRIS) Program, Washington, D.C. 20560.

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## Methods

**CORE COLLECTION.**—The northern Nile delta plain is characterized by low gentle relief and dense vegetal cover, and by the general absence of surface exposures of older Holocene and late Pleistocene deposits. These attributes, plus the variable thickness (< 10 m to > 50 m) and gentle inclination of subsurface Holocene strata, thus required that drilling be used to study the late Quaternary geological evolution of the Nile delta. The basis of the drilling strategy was to systematically recover complete sections of Holocene marine, brackish, and alluvial deposits of the modern Nile delta and portions of the underlying late Pleistocene alluvial deposits. Our preliminary surveys indicated that the area of major interest should extend across the entire deltaic arc, from the east at the Gulf of Tineh to the outskirts of Alexandria as far as Burg el Arab in the west (a distance of ~225 km). The study area in the low-lying northern third of the delta also extends as far south as ~30 km from the present Mediterranean coast (Figure 1) to ensure that long drill cores collected in this sector would allow reasonably detailed stratigraphic correlations and paleogeographic interpretations of former interfingering fluvial, deltaic, and marine sections to be made. It was anticipated that the region selected for drilling would help define those areas of the delta most susceptible to rising sea level and land subsidence.

A total of 87 Smithsonian cores (S1–S87) ranging in depth from ~20 to 60 m (lithologic logs in Appendix 1) and relatively evenly spaced (~10 km) across the northern Nile delta were recovered (Figure 1). These were collected during five field seasons: cores S1–S17 in September–October 1985; cores S18–S30 in April–May 1987; cores S31–S46 in August–September 1988; cores S47–S65 in September 1989; and cores S66–S87 in August–September 1990. Drilling of the cores was made progressively from east to west across the northern Nile delta. Positioning of drill sites in the field was determined using recent detailed contour maps (scale 1:50,000) compiled since the 1970s by the U.S. Defense Mapping Agency Hydrographic/Topographic Center in Washington, D.C. (DMA Map Series P 773 and 1501 NH 36), and also diverse sets of satellite images. Core number, total core length, date of core recovery, latitude and longitude, and approximate geographic position of each of the 87 core sites is listed in Table 1. Accuracy of core site positions in most cases is to



TABLE 1.—Data pertaining to Smithsonian boring sites S1–S87 collected as a primary base for the Nile Delta Project in 1985, 1987, 1988, 1989, and 1990. General information lists the total length of core, date of recovery, latitude, longitude, and approximate location of the drill site (see Figure 1). U.S. Defense Mapping Agency chart series P 773 and 1501 NH 36 served as a control for latitude and longitude, which provides accuracy to within 6 seconds, or ~200 m.

| Borehole number | Total length (m) | Date recovered | Latitude   | Longitude  | Approximate location                   |
|-----------------|------------------|----------------|------------|------------|--|
| S1              | 28.96            | 9/25/1985      | 31°26'54"N | 31°46'42"E | In Abbas Zahir                         |
| S2              | 19.81            | 9/29/1985      | 31°18'18"N | 31°36'18"E | 1.2 km ENE Abu Hammuda                 |
| S3              | 29.87            | 9/23/1985      | 31°17'48"N | 31°43'24"E | 0.9 km SW El Ghuneimiya                |
| S4              | 32.46            | 9/30/1985      | 31°13'42"N | 31°30'54"E | 1.5 km NNW El Hisas                    |
| S5              | 27.43            | 9/19/1985      | 31°11'36"N | 31°39'30"E | 1 km NW Nasl Ez. Hasan Shakir          |
| S6              | 26.37            | 9/16/1985      | 31° 6'30"N | 31°42'36"E | 1.5 km E El Gineina                    |
| S7              | 24.38            | 9/12/1985      | 31° 7'48"N | 31°52'18"E | 6.5 km SW Manzalah                     |
| S8              | 41.30            | 9/8/1985       | 31°12'48"N | 32° 2'18"E | 2.5 km N El Matariya                   |
| S9              | 15.70            | 9/4/1985       | 30°58'42"N | 31°52'42"E | 1 km E San El Hagar El Qibliya         |
| S10             | 24.38            | 9/2/1985       | 30°51'24"N | 32° 1'12"E | 2 km NNE El Munagat El Kubra           |
| S11             | 29.87            | 9/8/1985       | 30°55'12"N | 32°18'24"E | 3.5 km SE Ez. El Cop                   |
| S12             | 23.77            | 9/12/1985      | 31° 3'48"N | 32°33'18"E | 2.5 km NE Tel El Farama                |
| S13             | 30.48            | 9/15/1985      | 31° 4'42"N | 32°23'36"E | Israeli Rd. 7.8 km E of Suez Canal     |
| S14             | 23.16            | 9/18/1985      | 30°59'54"N | 32°28'12"E | 7.5 km WSW Baluza                      |
| S15             | 35.36            | 9/22/1985      | 31° 7'30"N | 32°30'18"E | 9 km NW Tel El Farama                  |
| S16             | 28.04            | 9/30/1985      | 31°21'36"N | 32° 3'48"E | 1 km WSW Ez. Shalabi El Rudi           |
| S17             | 43.28            | 10/1/1985      | 31°22'42"N | 31°57'54"E | 0.7 km NE Geziret Umm Abdalla          |
| S18             | 53.19            | 4/26/1987      | 31° 4'42"N | 32°20'30"E | 11.5 km WNW Tel Farama                 |
| S19             | 12.19            | 5/2/1987       | 31° 2'54"N | 32°33' 0"E | At Tel Farama                          |
| S20             | 50.29            | 5/4/1987       | 31° 6'36"N | 32°18' 6"E | 1 km W Suez Canal NE Extension         |
| S21             | 49.38            | 5/17/1987      | 31°13'48"N | 32°20'30"E | 3 km SE Port Fouad                     |
| S22             | 37.80            | 5/12/1987      | 31° 1'18"N | 32°12'30"E | 2 km W Ushash Arab Zeidan              |
| S23             | 13.72            | 5/10/1987      | 30°49'48"N | 32°15'12"E | In Alawi Umm El Rish                   |
| S24             | 10.97            | 5/9/1987       | 30°51' 6"N | 32°10'18"E | 5.5 km SW Ushash Ibrahim Abu Muh       |
| S25             | 14.33            | 5/13/1987      | 30°57'42"N | 32°10'48"E | 4 km SW Ushash Arab El Gadadia         |
| S26             | 13.72            | 5/12/1987      | 30°54'24"N | 32° 1'48"E | 0.2 km SE Minshat Abu Omar             |
| S27             | 15.24            | 5/16/1987      | 31° 0'24"N | 32° 1'54"E | 3 km S Ubash Mallaha                   |
| S28             | 36.58            | 5/24/1987      | 31°26'30"N | 31°33'18"E | 0.7 km SSW Ez. El Gamasa El Shardyia   |
| S29             | 39.62            | 5/25/1987      | 31°21'42"N | 31°27' 6"E | 0.5 km W Ez. El Mazia                  |
| S30             | 42.67            | 5/22/1987      | 31°24'30"N | 32° 0'42"E | 4 km NW Ez. Shalabi Rudi               |
| S31             | 45.72            | 8/21/1988      | 31°22' 6"N | 31°36' 0"E | 2.5 km E Kafr Wastani                  |
| S32             | 21.34            | 9/1/1988       | 31°16'48"N | 31°24'30"E | 0.3 km SW Hagg Shirbin Ez. Bahr El Ish |
| S33             | 25.91            | 8/27/1988      | 31°24'42"N | 31°21'48"E | 0.5 km N Ez. El Gezira                 |
| S34             | 39.62            | 8/29/1988      | 31°27'12"N | 31°23'18"E | 2 km N Abu Madi                        |
| S35             | 35.05            | 8/24/1988      | 31°31'42"N | 31°18'30"E | 1 km SE Qabr Sidi Durrngnam            |
| S36             | 45.72            | 9/5/1988       | 31°27'48"N | 31°15'24"E | 0.5 km W ruins Kom Niqueza             |
| S37             | 21.34            | 8/31/1988      | 31°22'12"N | 31°16'48"E | 3.3 km SE Kabira Gazireyet El Darfil   |
| S38             | 27.43            | 9/8/1988       | 31°25'18"N | 31°10'24"E | In Ez. El Baralsa                      |
| S39             | 18.29            | 8/29/1988      | 31°25'12"N | 31° 4'24"E | 0.75 km SE Kom El Masura               |
| S40             | 28.19            | 8/24/1988      | 31°30'48"N | 31° 8'30"E | 1.7 km NNE Hammad Mahattet El Kasha    |
| S41             | 51.82            | 9/14/1988      | 31°34'30"N | 31°12'18"E | In Hammad Mahattet El Kasha            |
| S42             | 45.72            | 9/13/1988      | 31°35'54"N | 31° 5'48"E | 0.7 km E Baltim Resort Center          |
| S43             | 42.67            | 8/25/1988      | 31°35'12"N | 30°58'42"E | In El Burg                             |
| S44             | 21.34            | 9/4/1988       | 31°26'12"N | 30°59'30"E | 1.8 km SE Geziret El Isbiryas          |
| S45             | 30.48            | 8/30/1988      | 31°30'30"N | 31° 1'54"E | In Rsa El Bar                          |
| S46             | 45.72            | 9/10/1988      | 31°24' 0"N | 30° 8'54"E | 3.5 NNE Kom El Nashwein                |
| S47             | 42.67            | 9/3/1989       | 31°32'24"N | 30°50'12"E | In Arab El Hanafi                      |
| S48             | 43.28            | 9/6/1989       | 31°30'12"N | 30°46'30"E | 4.5 km SW Kiman El Saiyar              |
| S49             | 41.15            | 9/4/1989       | 31°28'30"N | 30°41' 6"E | 1 km SW Kom Mastaroh                   |
| S50             | 41.15            | 9/5/1989       | 31°26' 6"N | 30°34'54"E | 3.5 km SSW Kom Mishtil                 |
| S51             | 41.15            | 9/6/1989       | 31°22'12"N | 30°29'42"E | 0.4 km S Ez. El Sakara                 |
| S52             | 41.15            | 9/7/1989       | 31°24'24"N | 30°46'12"E | 2 km NE Ras El Husan                   |
| S53             | 27.43            | 9/8/1989       | 31°23'42"N | 30°40'36"E | 0.4 km SW Atlet El Baqar               |
| S54             | 19.51            | 9/9/1989       | 31°19'36"N | 30°47'30"E | 0.4 km N El Haddadi                    |
| S55             | 19.81            | 9/9/1989       | 31°18'54"N | 30°40'18"E | In Ez. El Saiyid Mansur                |
| S56             | 19.81            | 9/10/1989      | 31°19'30"N | 30°31'24"E | 1 km SW Minyet El Murshid              |



| Borehole number | Total length (m) | Date recovered | Latitude   | Longitude  | Approximate location                    |
|-----------------|------------------|----------------|------------|------------|---|
| S57             | 19.81            | 9/10/1989      | 31°22'24"N | 30°35'42"E | Fish market 1 km SE Gazayir El Minsirib |
| S58             | 22.86            | 9/11/1989      | 31°23' 6"N | 30°25'48"E | 0.7 km N Giddiya                        |
| S59             | 41.15            | 9/12/1989      | 31°27'42"N | 30°26'30"E | 3 km NE Abu Khashaba                    |
| S60             | 30.48            | 9/12/1989      | 31°19'42"N | 30°24'36"E | 0.4 km SE El Buseili Station            |
| S61             | 41.15            | 9/13/1989      | 31°13'36"N | 30°22'18"E | 6 km WSW Hamad Dumeih                   |
| S62             | 24.38            | 9/14/1989      | 31°16'30"N | 30°19'42"E | 3.3 km SE Idku                          |
| S63             | 22.25            | 9/14/1989      | 31°21' 0"N | 30°18'54"E | 1.6 km NE El Nawa Fort                  |
| S64             | 41.15            | 9/16/1989      | 31°24'30"N | 30°20'42"E | 0.2 km SW El Farash Fort                |
| S65             | 48.62            | 9/15/1989      | 31°28'36"N | 30°21'30"E | 0.6 km SSE Sidi Mansur                  |
| S66             | 20.12            | 8/29/1990      | 31°16' 6"N | 30°27'24"E | 2.2 km W El Faiza                       |
| S67             | 19.81            | 9/1/1990       | 31°10'30"N | 30°19'54"E | 1.5 km S Ibr Zaiyat Ez. Kom Aziza       |
| S68             | 44.20            | 8/30/1990      | 31°16'30"N | 30°13'54"E | 1.5 km NNE Gazayir El Tawila            |
| S69             | 19.81            | 10/1/1990      | 31°11'36"N | 30°16'30"E | 1 km NNE Barsig Pumping Station         |
| S70             | 19.81            | 9/2/1990       | 31°10'54"N | 30°10'24"E | 0.5 km SE Minshat Bulin                 |
| S71             | 44.20            | 9/2/1990       | 31°15'54"N | 30°10'24"E | 0.5 km SW El Miaddiya Outlet            |
| S72             | 19.81            | 9/3/1990       | 31°13'54"N | 30° 8' 0"E | In Kom Tarfa                            |
| S73             | 44.20            | 9/3/1990       | 31°16'36"N | 30° 5' 0"E | 0.6 km N Ez. Hod #4                     |
| S74             | 18.29            | 9/4/1990       | 31°13'24"N | 30° 4'42"E | 0.8 km NNE El Akhdar                    |
| S75             | 24.38            | 9/4/1990       | 31°16'24"N | 30° 2'48"E | In Ez. Maqnas                           |
| S76             | 19.81            | 10/4/1990      | 31°13'48"N | 30° 0'48"E | 3 km SSE Ez. Farqon                     |
| S77             | 40.54            | 10/6/1990      | 31°10'48"N | 29°55'54"E | 1 km SW Fouad 1 Airport                 |
| S78             | 19.81            | 10/8/1990      | 31° 9' 0"N | 30° 2'24"E | 1.5 km NE Kom Lunsan                    |
| S79             | 42.67            | 9/5/1990       | 31° 6'12"N | 29°56'54"E | 3 km SW Prince Omar Tusan's kiosks      |
| S80             | 45.72            | 9/7/1990       | 31° 6' 6"N | 29°51'12"E | 1.8 km NW Kom El Shuran                 |
| S81             | 21.34            | 10/10/1990     | 31° 3'12"N | 29°59'30"E | 1.8 km NE Prince Omar Tusan's house     |
| S82             | 30.48            | 9/8/1990       | 31° 3' 0"N | 29°52'24"E | 2 km E Kom Mitauwh                      |
| S83             | 45.72            | 9/9/1990       | 31° 3'24"N | 29°46'12"E | 5.5 km NW El Gamiriya                   |
| S84             | 22.86            | 9/11/1990      | 30°59'36"N | 29°37' 6"E | 0.8 km SSW Manaret fish market          |
| S85             | 10.21            | 9/10/1990      | 30°55'24"N | 29°31'36"E | 1.5 km NW Burg El Arab                  |
| S86             | 41.15            | 10/11/1990     | 30°51'18"N | 30°47'48"E | 3 km Kafr El Zaiyat                     |
| S87             | 41.15            | 9/12/1990      | 30°44'24"N | 31° 1'54"E | 0.7 km S El Malwani Mosque              |

within 200 m. More detailed notations made during the course of drilling, including more exact position of boring sites (to within 50 m), are recorded in a series of 12 field books permanently archived at the National Museum of Natural History.

Two ACKER II trailer-mounted rigs were used concurrently by two drilling teams during each of the five expeditions (Figure 2). Casing was used at sites where thick subsurface sections of sand or soft mud prevailed (Figure 3). Sediment recovery at each drill site was continuous, by progressively connecting iron core tube barrels of either 5 foot (1.52 m) or 10 foot (3.05 m) lengths. Sediment core diameter ranged from 8 to 10 cm. Recovery of moderate to well-indurated mud-rich sections was good to excellent, preserving original physical and biogenic structures. Extrusion of very stiff mud, usually highly consolidated clayey silts of late Pleistocene age, was usually accomplished by high-pressure pumping of circulated water (Figure 4). Collection of very soft (undersaturated) mud and thick sand mud sequences proved more difficult. Where sections were comprised essentially of sand, washings from pumped circulated water (rather than cores) were obtained from core tubes (Figure 5), usually at 1 to 2 m depth intervals. Original structures are not preserved in these washings. In the

western part of the study area, between Alexandria and Burg el Arab, semiconsolidated to indurated carbonate sections were recovered (Figure 6) beneath thin Holocene sections.

Upon extrusion from the drill barrel, sediment core sections were cut into ~1.5 m lengths (Figure 7), laid in plastic liners, described, photographed, and then wrapped and sealed with plastic sheeting and placed in specially prepared 1.5 m-long wooden boxes (Figure 8). Washings were collected in plastic jars. Cores were assigned consecutive roman numerals, whereas washings received consecutive arabic numerals, down-boring. Cores and washings were then transported by air to the Smithsonian Institution in Washington, D.C., where they were stored in a refrigerated room prior to study. Upon recovery, representative core and washing samples (30–40 per core) were also selected from each boring and provided to our Egyptian counterpart organizations: cores S1–S17, to Dr. M. Khafagy at the Coastal Research Institute, Alexandria, in 1985; and cores S18–S87, to Dr. A. Bassiouni at the Department of Geology at Ain Shams University in Abbassia, Cairo, in 1987, 1988, 1989, and 1990.

Descriptions recorded in the field for each recovered core section include depth, length of drill barrel used, length of sediment section recovered, sediment color, gross texture and



obvious sedimentary structures, biogenic features (such as shell and peat), and sediment density (hardness, consistency) using a pocket penetrometer. Color, texture, and unusual features were also recorded for sands collected as washings. Upon recovery, 35 mm color slide photographs were made of every core section at approximately 50 cm length intervals, with some overlap, and these include a metric scale to determine core length. These photographs and data notations in field books are maintained at the National Museum of Natural History.

In addition to the above, lithologic logs and representative samples from nine long drill cores collected earlier in the Manzala Lagoon area were provided by the Coastal Research Institute in Alexandria to the Nile Delta Project team for additional study in Washington (Stanley and Liyanage, 1986). We also consulted lithologic logs of northern Nile delta drill borings from various unpublished sources, such as engineering consulting firms, the Egyptian Ministry of Irrigation and Agriculture departments, the Suez Canal authority, and U.S. AID reports, and in publications including those of Attia (1954) and UNDP/UNESCO (1978). These valuable documents supplemented information from the five Smithsonian drilling surveys (published in, respectively, from east to west: Coutellier and Stanley, 1987; Stanley, Warne et al., 1992; Arbouille and Stanley, 1991; Chen et al., 1992; Warne and Stanley, 1993b). Two Smithsonian cores collected in the central delta near Kafr El-Zaiyat and Tanta (S86 and S87) are described by Chen and Stanley (1993).

In addition to the long drill cores cited above, a suite of about 100 short cores, for the most part less than 1 m in length (Figure 9), along with approximately 200 surficial samples, were also collected for more specific study of the Nile delta lagoons (Manzala, Burullus, and Idku), former Abu Qir Lagoon, and Lake Mariut. These sediment samples are not presented in this monograph, but they are described in archival field books and detailed in publications by Randazzo (1992), Loizeau and Stanley (1993), Bernasconi and Stanley (1994), Loizeau and Stanley (1994), and Siegel et al. (1994). Also described elsewhere in a series of publications are data on short cores and surficial samples collected seaward of the delta on the shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a; Frihy et al., 1995), in the Suez Canal (Stanley et al., 1982), and in the River Nile (Schneiderman, 1995).

**LABORATORY ANALYSES.**—Extensive petrological, geochemical, faunal, and floral studies of the 87 long drill cores (S1–S87) were made so as to define the major late Pleistocene and Holocene (to modern) lithofacies in the northern Nile delta and to more precisely distinguish among prodelta, delta-front, strandline, lagoon, and floodplain deposits. This information was then used to make lithostratigraphic correlations and paleogeographic maps of the northern delta, to calculate land subsidence rates, and to interpret sea-level and climate changes through time.

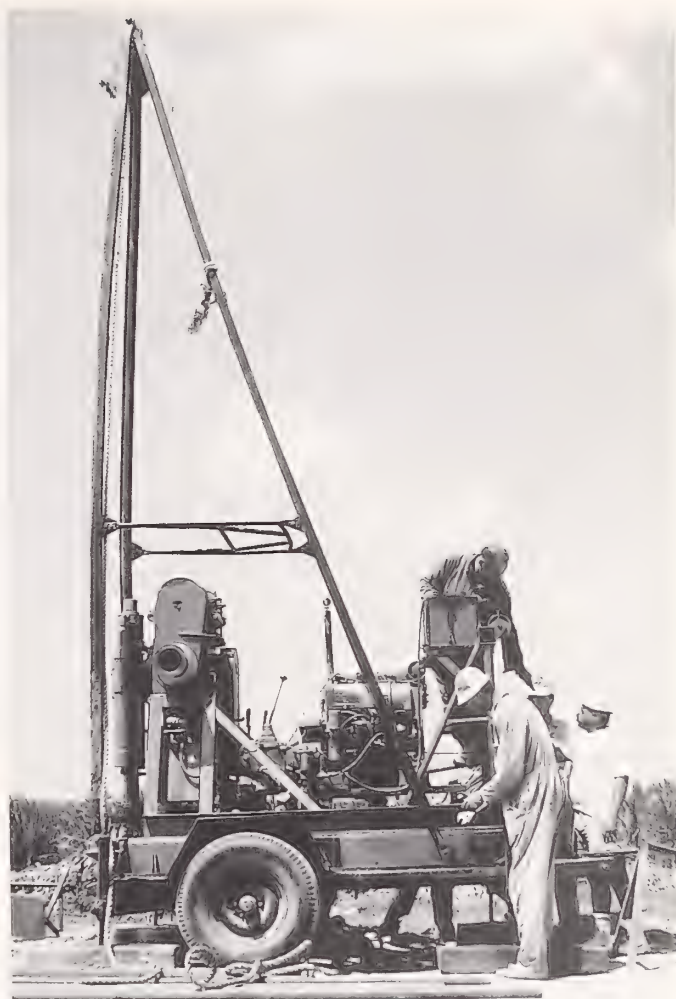


FIGURE 2.—Trailer-mounted ACKER II equipment of the type used during the five Nile delta drilling surveys described in this study. Photograph taken at site S69 in September 1990.

The core sections were placed in a high humidity refrigerated room, with the temperature maintained at 4° C, until they were ready for study. After the cores were split, all sections were x-radiographed using 14 × 17 inch (35.6 × 43.2 cm) industrial film, and positive prints (1:1 scale) were made from the x-radiographs. Split core sections, while still moist, were then photographed, using 35 mm color slide film, at about 40 cm length intervals, with some overlap. A detailed lithological log was made of each Smithsonian core on the basis of visual observations, including color, details of sedimentary and biogenic structures in the strata, subtle features noted in x-radiographs, and penetrometer sediment hardness readings of the split cores. These notations were compiled and recorded during the period 1985 to 1992 in laboratory books presently archived, along with the complete set of x-radiographs and





FIGURE 3.—Large-diameter pipes in foreground are used for casing, particularly when drilling in thick sections of sand and/or soft mud. Note 10-foot (3.05 m) lengths of drill pipe assembled near the drilling equipment. Photograph taken at site S11 in September 1985.



FIGURE 4.—Extrusion from drill pipe of stiff clayey silt of late Pleistocene age, using high pressure pumping of circulated water. Photograph taken at site S55 in September 1989.





FIGURE 5.—Recovery of sediment from washings of circulated water in a thick sand sequence. Photograph taken at site S77 in September 1990.

color slides of split cores, at the National Museum of Natural History. Petrologic attributes for core sections and washings derived from these documents were used to draft detailed lithologic logs of the 87 borings. Simplified logs are presented in Appendix 1.

To obtain more detailed petrologic information, samples were collected down-boring at every change of lithology, or in the case of homogenous sections at a minimum of 50 cm intervals (except in the case of washings) along the entire length of the boring. More than 2500 samples were selected from the 87 borings, or an overall average of ~30 samples per core, for standard textural and compositional analyses (data listed in Appendix 2). Core and washing sample numbers and depths in this listing correspond to those shown on the lithologic logs in Appendix 1.



FIGURE 6.—Drilling through consolidated carbonate section of late Pleistocene age in the region west of Alexandria. Pumped water is typically white when circulated through drilled carbonate sequences. Photograph taken at site S85 in September 1990.

The proportions of sand ( $> 63 \mu\text{m}$ ), silt ( $2\text{--}63 \mu\text{m}$ ), and clay ( $< 2 \mu\text{m}$ ) fractions were determined by sieve and pipette analyses. A separate study of the relative percentages of components forming the sand-sized fraction in all samples was made using a binocular microscope, following the petrographic method of Coutellier and Stanley (1987), Frihy and Stanley (1988), and Stanley and Chen (1991). Relative percentages of major sand-sized components were calculated from point counts of  $> 300$  grains for all samples. The 16 components counted include 8 mineralogical (light and heavy minerals, mica, glauconite/verdine, pyrite, evaporite/gypsum, lithic fragments, aggregate), 6 faunal (indeterminate shell fragments, foraminifera, ostracod, gastropod, pelecypod, sponge), and 2 floral (plant fragments, including seed and fiber, and diatom).





FIGURE 7.—Mud-rich sediment core of Holocene age placed in a plastic liner after extrusion from the drill barrel. Photograph taken at site S18 in April 1987.

Proportions of the various sand-sized compositional components and their positions along the core length (data in Appendix 2) are graphically depicted on each of the core lithologic logs (Appendix 1). All this information has been used in a series of geological studies of the northern delta, including the five regional surveys by Coutellier and Stanley (1987), Arbouille and Stanley (1991), Stanley, Warne et al. (1992), Chen et al. (1992), and Warne and Stanley (1993b).

In addition to the 2500 samples taken from the 87 long cores cited above, another ~1000 core samples were selected for separate, more specific, petrographic and faunal study. These include those of the sand-sized fraction examined for glauconite/verdine (Pimmel and Stanley, 1989), surface features of quartz (Frihy and Stanley, 1987; Stanley and Chen, 1991), heavy minerals (Stanley et al., 1988; Foucault and Stanley, 1989; Stanley, 1989), and carbonates (Stanley and Hamza,

1992). Biogenic fractions of sand-sized material in numerous core samples also were examined: foraminifera (Kulyk, 1987); ostracods (Pugliese and Stanley, 1991); molluscs (Bernasconi et al., 1991; Longo, 1992; Bernasconi and Stanley, 1994); and plant matter (Howa and Stanley, 1991). Volcanic shards (Stanley and Sheng, 1986) and pollen (Leroy, 1992) were detailed in the silt-size fraction of some long core samples in the Manzala Lagoon area. Analyses of clay minerals also were made (Stanley and Liyanage, 1986; Abu-Zeid and Stanley, 1990; Abdel Wahab and Stanley, 1991). Geochemical analyses of long core samples were made in the northeastern Nile delta using either the sand fraction (Hamroush and Stanley, 1991; Allen et al., 1993), the silt and clay fractions (Dominik and Stanley, 1993), or primarily the clay fraction (Gerber, 1988; Gupta, 1989; Shergill, 1990; Siegel et al., 1995).

The petrology, including structures, petrography, and texture, of short core sections and surficial grab samples in different localities was also examined, using methods comparable to those employed for study of the long cores. These areas include the following: the Nile delta shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a, 1989; Frihy et al., 1995); Suez Canal (Stanley et al., 1982); delta lagoons (Randazzo, 1992; Longo, 1992; Loizeau and Stanley, 1993, 1994; Siegel et al., 1994); and the River Nile between Aswan and the Mediterranean coast (Schneiderman, 1995).

**RADIOCARBON DATING.**—An essential part of the Nile delta core study was to clearly distinguish subsurface Holocene from late Pleistocene sections and to subdivide Holocene sections into viable mappable stratigraphic sequences. It was anticipated that by obtaining a large set of radiocarbon dates we could establish a chronostratigraphic framework that would enhance regional litho- and biostratigraphic correlations. A total of 412 samples in 86 of the borings (all except core S65) were submitted for radiocarbon dating (Table 2); of these samples, 358 provided radiocarbon ages, and 54 had insufficient carbon for reliable dates. This constitutes a base of approximately four dates per boring. Sample positions and depth in the borings are shown in the lithologic logs in Appendix 1. Material selected for dating was obtained from split core sections 10–12 cm in length. Most of these dates were obtained using total carbon in dark olive organic-rich layers (for the most part lagoonal deposits) and peats (marsh deposits); shell matter was also used in a few instances. Most analyses were made by Beta Analytic Inc.© of Miami, Florida; an additional 19 samples, selected from borings S7 and S8, were treated by the Smithsonian Institution's Radiobiology Laboratory. The dates are shown in Table 2 and in Appendices 1 and 2, and the permanent radiocarbon record numbers are also listed in Table 2. Chronostratigraphic correlations based on these data are depicted in a series of published studies made across the northern delta, from east to west: Coutellier and Stanley (1987); Stanley, Warne et al. (1992); Arbouille and Stanley (1991); Chen et al. (1992); and Warne and Stanley (1993b).





FIGURE 8.—After extraction from the drill barrel, mud-rich sediment cores are cut into 5-foot (1.5 m) lengths, placed in plastic liners, and described prior to storage in boxes. Photograph taken at site S55 in September 1989.

Short cores in other sectors have also been radiocarbon dated, and this information is available in several publications: in the northern Suez Canal (Stanley et al., 1982); and in the Nile delta shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a).

Identified archeological material preserved in cores (Stanley et al., 1992; Warne and Stanley, 1993a) and a dating study emphasizing the amino acid racemization methodology on several long cores (Goodfriend and Stanley, 1996) provide additional age information on the Holocene delta sections.

### Nile Delta Project Data Used in Scientific Literature

#### STUDIES LISTED BY LOCATION

A recent bibliographic listing of all known publications through 1993 that pertain to the geology and geography of the Nile delta proper and its immediate vicinity, on land and offshore, recently has been compiled (Stanley et al., 1994). It is of note that during the past decade there have been over 50 articles published in the scientific literature and seven theses have been completed as a direct result of research undertaken in Egypt as sponsored by the Nile Delta Project. These describe in considerable detail the various methods used in the study of the

Nile materials cited above. Most of these documents include at least some of the S1–S87 core data referred to in the previous section and presented in Appendices 1 and 2.

A series of publications that draw upon the Smithsonian Institution's borings and core sample data focus on the late Pleistocene to Recent paleogeographic evolution of the northern delta plain. Many of these emphasize petrologic descriptions, lithofacies interpretations, chrono- and lithostratigraphic core-to-core correlations of late Quaternary sections, and the effects of sea-level change, climate, neotectonism, and sediment transport processes on Nile delta deposits. These investigations include studies of the northeastern delta (Coutellier and Stanley, 1987; cores S1–S17; Stanley, 1988b; cores S1–S36); the northern delta (Stanley, Warne et al., 1992; cores S1–S16, S28–S46); the north-northwestern delta (Arbouille and Stanley, 1991; cores S38–S59); and the northwestern delta (Chen et al., 1992; cores S51–S78; Stanley and Hamza, 1992; cores S74–S85; Warne and Stanley, 1993b; cores S72–S85). A study using selected borings in the central delta (cores S86 and S87) was made by Chen and Stanley (1993).

Other Nile Delta Project studies of the lower plain region, focusing on the late Holocene to present time, have primarily used short cores (< 1 m length) and surficial sediment grab samples, rather than the long S-cores. Study areas include





FIGURE 9.—Recovery of a short core (~1 m) in Manzala Lagoon. Photograph taken at short core site Man-IV and collected in September 1989.

Manzala Lagoon (Randazzo, 1992; Slaboda, 1993; Bernasconi and Stanley, 1994; Siegel et al., 1994), Burullus Lagoon (Bernasconi and Stanley, 1994), Idku Lagoon (Loizeau and Stanley, 1993; Bernasconi and Stanley, 1994), and Mariut Lake (Bernasconi and Stanley, 1994; Loizeau and Stanley, 1994). Analyses were also made on Suez Canal sediments, including those in its northern sector, positioned in the northeastern Nile delta (Stanley et al., 1982; Gerges and Stanley, 1985; Bernasconi and Stanley, in press). A petrologic investigation of lower Nile River deposits, between the Egypt-Sudan border and Cairo, has been initiated with a first study on heavy minerals completed by Schneiderman (1995). Studies of late Quaternary deposits seaward of the Nile delta include those on Abu Qir Bay (Frihy et al., 1995) and several on the Nile delta shelf and Nile Cone (Stanley and Maldonado, 1983; Anastasakis and Stanley, 1984, 1985; Stanley, 1985, 1988a, 1989).

## STUDIES LISTED BY TOPIC AND THEME

In addition to geographic attribution, most of the studies listed above, along with other published scientific articles and theses completed during the course of the Nile Delta Project, can be listed by specific topic or theme. We recognize 12 major categories in which we can incorporate data collected as part of the project. As would be expected, most published articles and theses can be assigned to at least two or three of these. Each category comprises contributions listed chronologically, including year, last name of author(s), and abbreviated topic notation. For complete reference citations, the reader is directed to the Literature Cited in this publication.

**PETROLOGY, COMPOSITION, AND TEXTURE.**—Most studies made during the course of the project consider lithologic attributes, such as sedimentary and biogenic structures, grain size, and composition of sand- and clay-size fractions. It is primarily on this basis that Nile delta facies of late Pleistocene and Holocene age are defined and interpreted, and their distribution mapped in time and space.

- |       |   |
|-------|---|
| 1982  | Stanley, Freeland, and Sheng: Suez Canal sediments                    |
| 1983  | Stanley and Maldonado: Nile Cone sedimentation                        |
| 1984  | Anastasakis and Stanley: Sapropels on the Nile Cone                   |
| 1985  | Stanley: Mud redeposition on the Nile Cone                            |
| 1985  | Anastasakis and Stanley: Sapropels on the Nile Cone                   |
| 1986  | Stanley and Sheng: Volcanic shards in the delta                       |
| 1986  | Stanley and Liyanage: Clay minerals in the northeastern delta         |
| 1987  | Frihy and Stanley: Quartz grain surface textures                      |
| 1987  | Coutellier and Stanley: Petrology and lithofacies, northeastern delta |
| 1988  | Frihy and Stanley: Texture and composition of delta deposits          |
| 1988  | Stanley, Sheng, and Pan: Heavy minerals, northeastern delta           |
| 1988  | Gerber: Clays and geochemistry, northeastern delta cores              |
| 1988a | Stanley: Sedimentation on the Nile delta shelf                        |
| 1989  | Pimmel and Stanley: Verdinized fecal pellets in Holocene deposits     |
| 1989  | Foucault and Stanley: Heavy minerals, northeastern delta              |
| 1989  | Gupta: Clays and geochemistry, northeastern delta                     |
| 1989  | Stanley: Heavy minerals between the delta and Israeli margin          |
| 1990  | Abu-Zeid and Stanley: Clay minerals, northeastern delta               |
| 1990  | Shergill: Clays and geochemistry, northeastern delta                  |
| 1991  | Abdel Wahab and Stanley: Clay minerals, northern delta                |



- 1991 Arbouille and Stanley: Petrology and lithofacies, northern delta
- 1991 Howa and Stanley: Petrology and plant matter across the delta
- 1991 Stanley and Chen: Stain-grained and sand-size composition of diverse modern delta facies
- 1992 Stanley and Hamza: Carbonate sediments, northwestern delta
- 1992 Stanley, Warne et al.: Petrology and lithofacies, northern delta
- 1992 Randazzo: Petrology of Manzala Lagoon sediments
- 1992 Chen, Warne, and Stanley: Petrology and lithofacies, northwestern delta
- 1993 Chen and Stanley: Alluvial stiff muds, late Pleistocene
- 1993b Warne and Stanley: Petrology and lithofacies, northwestern delta
- 1993 Loizeau and Stanley: Lithofacies, Idku Lagoon
- 1994 Loizeau and Stanley: Lithofacies, Mariut Lake
- 1995 Frihy, Moussa, and Stanley: Abu Qir Bay sediments
- 1995 Schneiderman: River Nile sands between Aswan and the delta

**FAUNAL ANALYSES.**—Studies in this category include micro- and macro-fossil analyses in long cores in the northern Nile delta, and also short core and grab samples collected in delta lagoons. These investigations provide ecological information on depositional environments.

- 1987 Kulyk: Foraminifera in the northeastern delta
- 1991 Bernasconi, Stanley, and DiGeronimo: Molluscan faunas in the northeastern delta
- 1991 Pugliese and Stanley: Ostracodes in the northeastern delta
- 1992 Longo: Molluscan faunas and palaeoecology in delta lagoons
- 1994 Bernasconi and Stanley: Molluscan biofacies in delta lagoons

**FLORAL ANALYSES.**—To date, only two floral studies in Nile delta sediments have been completed within the framework of this project. Plant matter of sand size and pollen in long cores provide information on paleoclimatological and paleoecological changes with time in the study area.

- 1991 Howa and Stanley: Plant matter distribution across the northern delta
- 1992 Leroy: Palynological assemblages, northeastern delta

**GEOCHEMICAL ANALYSES.**—Included in this category are investigations of trace and rare earth elements, which provide information on environmental and paleoclimatic changes through time, provenance, and dispersal, and the means to

gauge increased pollution in northern delta sectors, including lagoons.

- 1988 Gerber: Trace elements, northeastern delta
- 1989 Gupta: Trace elements, northeastern delta
- 1990 Shergill: Trace elements, northeastern delta
- 1991 Hamroush and Stanley: Rare earth elements and paleoclimate oscillations
- 1993 Allen, Hamroush, and Stanley: Trace elements and archaeological implications
- 1993 Dominik and Stanley: Trace elements and peats
- 1993 Slaboda: Trace elements in recent Manzala Lagoon
- 1994 Siegel, Slaboda, and Stanley: Trace elements and pollution in Manzala Lagoon
- 1995 Siegel et al.: Trace elements in cores of the northeastern delta

**NEOTECTONISM AND ITS EFFECTS ON THE DELTA.**—Studies listed below emphasize the vertical motion of land, rates of subsidence, and evidence of tilting to the northeast of the Nile delta during the late Quaternary. Measurements involve displacement of radiocarbon-dated lithofacies, which were originally deposited at or near sea level and are now buried below the delta plain surface.

- 1985 Stanley and Wetzel: Structural displacement in the southeastern Mediterranean
- 1988b Stanley: Subsidence rates in the northeastern delta
- 1990 Stanley: Subsidence and tilting of the delta plain
- 1991 Arbouille and Stanley: Subsidence in the northern delta
- 1992 Stanley, Warne et al.: Subsidence in the northern delta
- 1992 Chen, Warne, and Stanley: Subsidence in the northwestern delta
- 1992 Stanley: Subsidence rates of the northern delta plain
- 1992 Stanley, Arnold, and Warne: Subsidence and burial of a Predynastic site
- 1993a Stanley and Warne: Synthesis of delta subsidence
- 1993a Warne and Stanley: Measuring subsidence rates using archeological data
- 1993b Warne and Stanley: Subsidence in the northwestern delta

**SEA-LEVEL AND CLIMATIC FACTORS AFFECTING THE DELTA.**—Investigations in this category emphasize the influences of global (eustatic) sea-level oscillations, excluding land motion, and effects of climate change, which controlled fluvial and sediment input and delta aggradation during the late Quaternary.

- 1987 Coutellier and Stanley: Northeastern delta
- 1991 Arbouille and Stanley: North-central delta
- 1991 Hamroush and Stanley: Paleoclimatic oscillations
- 1992 Stanley, Warne et al.: North-central delta



TABLE 2.—Radiocarbon dates for samples from boreholes S1–S87, in uncorrected years before present (BP). Data listing includes depth from top of boring, Smithsonian sample letter code, and number code assigned by Beta Analytic Inc.®; the 19 samples analyzed by the Smithsonian's Radiobiology Laboratory are designated by the SI letter code prefix.

| Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) | Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) |
|-----------------|-----------|---------------------------|--------------------|----------------|-----------------|-----------|---------------------------|--------------------|----------------|
| S1              | 2         | A                         | 19414              | 2930 ± 90      | S8              | 12.5      | J                         | SI7050A            | 14030 ± 240    |
|                 | 8         | B                         | 19415              | 3230 ± 160     |                 | 15.5      | K                         | SI7051A            | Insufficient C |
|                 | 9.5       | C                         | 19416              | 2360 ± 100     |                 | 16        | D                         | 17246              | 32910 ± 1740   |
|                 | 15.5      | D                         | 19417              | 6410 ± 180     |                 | 18        | L                         | SI7052A            | 26800 ± 560    |
|                 | 23        | E                         | 19418              | 7590 ± 130     |                 | 19        | M                         | SI7053A            | 38220 ± 800    |
|                 | 28        | F                         | 19419              | 7440 ± 90      |                 | 1         | A                         | 17248              | 4170 ± 120     |
| S2              | 1.5       | A                         | 18554              | 1830 ± 70      |                 | 3         | A'                        | SI7106             | 4025 ± 180     |
|                 | 3.5       | B                         | 18555              | 3800 ± 90      |                 | 5         | B                         | 17249              | 4230 ± 90      |
|                 | 7.5       | C                         | 18556              | 5110 ± 80      |                 | 9.5       | B                         | SI7107             | 4695 ± 115     |
|                 | 9.5       | D                         | 18557              | 6580 ± 100     |                 | 16        | C                         | SI7108             | 5110 ± 90      |
|                 | 12.5      | E                         | 18558              | 7110 ± 70      |                 | 20        | D                         | SI7109             | 6965 ± 110     |
|                 | 19        | F                         | 18559              | 14000 ± 280    |                 | 25        | E                         | 17110              | Insufficient C |
| S3              | 3         | A                         | 20255              | 3030 ± 80      | S9              | 26        | F                         | 17111              | Insufficient C |
|                 | 8.5       | B                         | 20256              | 4200 ± 100     |                 | 27        | E                         | 17250              | 6760 ± 140     |
|                 | 11        | C                         | 20257              | 5950 ± 100     |                 | 36        | F                         | 17251              | 7300 ± 110     |
|                 | 15.5      | D                         | 20258              | 7510 ± 110     |                 | 40        | G                         | SI7112             | 9060 ± 90      |
|                 | 21.5      | E                         | 20259              | 7180 ± 110     |                 | 2         | A                         | 17252              | 3740 ± 150     |
|                 | 26        | F                         | 20260              | 7480 ± 90      |                 | 4.5       | B                         | 17253              | 5140 ± 80      |
| S4              | 1         | A                         | 18905              | 2990 ± 90      |                 | 12        | C                         | 17254              | Insufficient C |
|                 | 2.5       | B                         | 18906              | 2150 ± 100     | S10             | 7         | A                         | 17255              | 21880 ± 970    |
|                 | 5.5       | C                         | 18907              | 4080 ± 130     |                 | 8         | B                         | 17256              | Insufficient C |
|                 | 7.5       | D                         | 18908              | 5330 ± 120     | S11             | 2         | A                         | 16686              | 2550 ± 80      |
|                 | 10        | E                         | 18909              | 5510 ± 150     |                 | 5.5       | B                         | 16687              | 4570 ± 170     |
|                 | 12.5      | F                         | 18910              | 6880 ± 100     |                 | 8.5       | C                         | 16688              | 5190 ± 100     |
|                 | 14        | G                         | 18911              | 7020 ± 120     |                 | 11        | D                         | 16689              | 6110 ± 120     |
|                 | 16        | H                         | 18912              | 7020 ± 140     |                 | 14.5      | E                         | 16690              | 6475 ± 90      |
| S5              | 2         | A                         | 20544              | 1450 ± 80      | S12             | 23        | F                         | 16691              | 9820 ± 400     |
|                 | 4.5       | B                         | 20545              | 2450 ± 80      |                 | 2         | A                         | 18115              | Insufficient C |
|                 | 7.5       | C                         | 20546              | 4340 ± 120     |                 | 5.5       | B                         | 18116              | 1500 ± 80      |
|                 | 13        | D                         | 20547              | 6390 ± 110     |                 | 9.5       | C                         | 18117              | 3550 ± 100     |
|                 | 17        | E                         | 20548              | 7010 ± 140     |                 | 13.5      | D                         | 18118              | 7280 ± 490     |
|                 | 21.5      | F                         | 20549              | 7620 ± 110     |                 | 18        | E                         | 18119              | Insufficient C |
|                 | 28.5      | G                         | 20550              | 7500 ± 110     | S13             | 24        | F                         | -                  | Insufficient C |
|                 | 29        | H                         | 20551              | 11290 ± 160    |                 | 5         | A                         | 16534              | 3760 ± 70      |
| S6              | 1.5       | A                         | 16340              | 1910 ± 70      |                 | 8         | B                         | 16535              | 3640 ± 120     |
|                 | 5.5       | B                         | 16341              | 3750 ± 60      |                 | 11.5      | C                         | 16536              | 4050 ± 110     |
|                 | 10.5      | C                         | 16342              | 6930 ± 110     |                 | 16        | D                         | 16537              | 3000 ± 110     |
|                 | 18        | D                         | 16343              | 7790 ± 110     |                 | 21        | E                         | 16538              | 5130 ± 90      |
|                 | 20.5      | E                         | 16344              | 24820 ± 400    | S14             | 1.5       | A                         | 18120              | Insufficient C |
| S7              | 1.5       | A                         | SI7041A            | 2340 ± 90      |                 | 5         | B                         | 18121              | Insufficient C |
|                 | 2         | A                         | 17243              | 4230 ± 100     |                 | 6.5       | E                         | 18125              | Insufficient C |
|                 | 2.5       | B                         | SI7042B            | 3805 ± 40      |                 | 7.5       | C                         | 18123              | > 23210        |
|                 | 3.5       | C                         | SI7043B            | 2110 ± 100     |                 | 8.5       | D                         | 18124              | 26270 ± 3850   |
|                 | 5         | B                         | 17244              | 6300 ± 100     |                 | 13        | F                         | 18126              | 7440 ± 370     |
|                 | 5.5       | E                         | 17247              | Insufficient C |                 | 16        | G                         | 18127              | Insufficient C |
|                 | 6         | E                         | SI7045B            | 6325 ± 120     |                 | 22        | H                         | 18128              | Insufficient C |
|                 | 7         | F                         | SI7046B            | 5720 ± 70      | S15             | 3.5       | A                         | 17831              | 1620 ± 70      |
|                 | 8         | C                         | 17245              | 6500 ± 100     |                 | 7         | B                         | 17832              | 4370 ± 160     |
|                 | 8         | G                         | SI7047A            | 8215 ± 155     |                 | 10.5      | C                         | 17833              | 2620 ± 80      |
|                 | 8         | G                         | SI7047B            | 7610 ± 90      |                 | 14.5      | D                         | 17834              | 3870 ± 80      |
|                 | 9.5       | H                         | SI7048A            | Insufficient C |                 | 20        | E                         | 17835              | 4170 ± 90      |
|                 | 10        | H                         | SI7048B            | 5285 ± 155     |                 | 25.5      | F                         | 17836              | 6760 ± 90      |
|                 | 11        | I                         | SI7049A            | 12870 ± 180    |                 |           |                           |                    |                |



| Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) | Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) |
|-----------------|-----------|---------------------------|--------------------|----------------|-----------------|-----------|---------------------------|--------------------|----------------|
| S16             | 35        | H                         | 17838              | 7420 ± 90      | S25             | 3.5       | A                         | 25463              | 3860 ± 90      |
|                 | 3         | A                         | 16345              | 2360 ± 90      |                 | 8         | B                         | 25464              | 6630 ± 110     |
|                 | 9         | B                         | 16346              | 1940 ± 90      |                 | 12.5      | C                         | 25465              | 6760 ± 100     |
|                 | 14        | C                         | 16347              | 4500 ± 90      |                 | 14        | D                         | 25466              | 6210 ± 100     |
|                 | 18        | D                         | 16348              | 4820 ± 80      | S26             | 1         | K                         | 24895              | 2500 ± 170     |
| S17             | 23        | E                         | 16349              | 7700 ± 110     |                 | 2.5       | L                         | 24896              | 2820 ± 120     |
|                 | 27.5      | F                         | 16350              | 7340 ± 90      |                 | 5         | M                         | 24897              | 4370 ± 170     |
|                 | 2         | A                         | 20079              | 1420 ± 80      |                 | 5.5       | N                         | 24898              | 4210 ± 90      |
|                 | 8         | B                         | 20080              | 4200 ± 120     |                 | 6.5       | O                         | 24899              | Insufficient C |
| S18             | 12.5      | C                         | 20081              | 4480 ± 110     | S27             | 2         | A                         | 25537              | 3160 ± 120     |
|                 | 19        | D                         | 20082              | 4890 ± 110     |                 | 6         | B                         | 25538              | 2520 ± 90      |
|                 | 30        | E                         | 20083              | 7980 ± 90      |                 | 6.5       | C                         | 25539              | 2980 ± 70      |
|                 | 35        | F                         | 20084              | 7850 ± 100     |                 | 9         | D                         | 25540              | 3330 ± 90      |
|                 | 42.5      | G                         | 20085              | 8940 ± 120     |                 | 10.5      | E                         | 25541              | 6560 ± 90      |
|                 | 30        | F                         | 16539              | 7150 ± 110     | S28             | 5         | F                         | 26381              | 4500 ± 120     |
|                 | 1.5       | A                         | 24004              | 1400 ± 80      |                 | 18        | G                         | 26382              | 8640 ± 110     |
|                 | 6.5       | B                         | 24005              | 4650 ± 120     |                 | 23.5      | H                         | 26383              | 7230 ± 80      |
|                 | 11        | C                         | 24006              | 4100 ± 70      |                 | 26        | I                         | 26384              | Insufficient C |
|                 | 17.5      | D                         | 24007              | 4480 ± 110     |                 | 28        | J                         | 26385              | 10950 ± 90     |
| S19             | 26        | E                         | 24008              | 7400 ± 80      |                 | 35        | K                         | 26386              | Insufficient C |
|                 | 27.5      | F                         | 24009              | 4040 ± 100     | S29             | 4         | A                         | 26387              | 3460 ± 100     |
|                 | 41        | G                         | 24010              | 11530 ± 80     |                 | 6         | B                         | 26388              | 4580 ± 100     |
|                 | 52.5      | H                         | 24011              | 12070 ± 370    |                 | 7         | C                         | 26389              | 5190 ± 90      |
|                 | 1         | F                         | 24890              | Insufficient C |                 | 9         | D                         | 26390              | 4910 ± 90      |
|                 | 4         | G                         | 24891              | 3070 ± 110     |                 | 18        | E                         | 26391              | 8870 ± 170     |
|                 | 6.5       | H                         | 24892              | 3960 ± 100     | S30             | 18.5      | A                         | 26910              | 5270 ± 90      |
| S20             | 8.5       | I                         | 24893              | 4080 ± 90      |                 | 22.5      | B                         | 26911              | 5020 ± 110     |
|                 | 11.5      | J                         | 24894              | Insufficient C |                 | 26.5      | C                         | 26912              | 8090 ± 120     |
|                 | 2         | A                         | 25256              | 2890 ± 130     |                 | 27.5      | D                         | 26913              | 8040 ± 250     |
|                 | 11        | B                         | 25257              | 4190 ± 90      |                 | 28.5      | E                         | 26914              | Insufficient C |
|                 | 22        | C                         | 25258              | 5110 ± 110     |                 | 34        | F                         | 26915              | 10770 ± 120    |
|                 | 27.5      | D                         | 25259              | 7460 ± 80      | S31             | 4.5       | A                         | 32455              | 3260 ± 90      |
|                 | 34        | E                         | 25260              | 7260 ± 90      |                 | 10.5      | B                         | 32456              | 5840 ± 140     |
| S21             | 40        | F                         | 25261              | 7630 ± 90      |                 | 15        | C                         | 32457              | 6590 ± 110     |
|                 | 42        | G                         | 25262              | 7360 ± 90      |                 | 19.5      | D                         | 32458              | 7650 ± 150     |
|                 | 45        | H                         | 25263              | 15110 ± 640    |                 | 25        | E                         | 32459              | 7850 ± 140     |
|                 | 1         | A                         | 25937              | 3400 ± 140     |                 | 27        | F                         | 32460              | 6880 ± 80      |
|                 | 9.5       | B                         | 25938              | 3530 ± 90      |                 | 28        | G                         | 32461              | Insufficient C |
|                 | 16        | C                         | 25939              | 3870 ± 100     |                 | 28.5      | H                         | 33115              | > 25670        |
|                 | 25        | D                         | 25940              | 4520 ± 110     | S32             | 7.5       | A                         | 33116              | 5880 ± 170     |
| S22             | 34        | E                         | 25941              | 5780 ± 130     |                 | 11.5      | B                         | 33117              | 7100 ± 130     |
|                 | 40.5      | F                         | 25942              | 7140 ± 110     |                 | 12        | C                         | 33118              | 7960 ± 150     |
|                 | 46        | G                         | 25943              | 8190 ± 110     |                 | 19        | D                         | 33119              | Insufficient C |
|                 | 48        | H                         | 25944              | 8140 ± 130     | S33             | 12        | A                         | 30599              | 5500 ± 190     |
|                 | 0.5       | A                         | 23672              | 3630 ± 110     |                 | 12.5      | B                         | 30600              | 3560 ± 150     |
|                 | 3         | B                         | 23673              | 3770 ± 90      |                 | 21        | C                         | 30601              | Insufficient C |
|                 | 8         | C                         | 23674              | 4670 ± 80      |                 | 21.5      | D                         | 30602              | 34380 ± 1740   |
| S23             | 14        | D                         | 23675              | 6630 ± 150     | S34             | 13        | A                         | 30603              | 8370 ± 180     |
|                 | 21.5      | E                         | 23676              | 7910 ± 150     |                 | 13.5      | B                         | 30604              | 6710 ± 190     |
|                 | 22        | F                         | 23677              | 7540 ± 70      |                 | 24        | C                         | 30605              | 19450 ± 840    |
|                 | 31        | G                         | 23678              | 32920 ± 930    |                 | 25        | D                         | 30606              | 21050 ± 920    |
|                 | 37        | H                         | 23679              | 24320 ± 2030   | S35             | 10        | F                         | 31486              | 6160 ± 80      |
|                 | 1.5       | A                         | 24885              | 2490 ± 80      |                 | 17.5      | E                         | 31485              | 7730 ± 120     |
|                 | 5         | B                         | 24886              | Insufficient C |                 | 21        | A                         | 30607              | 7260 ± 110     |
| S24             | 0.5       | C                         | 24887A             | 4130 ± 180     |                 | 22.5      | B                         | 30608              | 4770 ± 110     |
|                 | 7.5       | D                         | 24887B             | 9200 ± 110     |                 | 30        | C                         | 30609              | Insufficient C |
|                 | 10        | E                         | 24889              | 24240 ± 1510   |                 |           |                           |                    |                |



| Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) | Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) |
|-----------------|-----------|---------------------------|--------------------|----------------|-----------------|-----------|---------------------------|--------------------|----------------|
| S36             | 14        | A                         | 30610              | 7080 ± 120     | S46             | 8         | A                         | 34478              | 7130 ± 80      |
|                 | 14.5      | B                         | 30611              | Insufficient C |                 | 10.5      | B                         | 34479              | 6620 ± 70      |
|                 | 25        | C                         | 30612              | 27720 ± 670    |                 | 12        | C                         | 34480              | 12940 ± 240    |
|                 | 34.5      | D                         | 30613              | 25570 ± 720    |                 | 18        | D                         | 34481              | Insufficient C |
| S37             | 5         | A                         | 33120              | 3260 ± 80      | S47             | 5.5       | A                         | 36764              | 4270 ± 110     |
|                 | 12.5      | B                         | 33121              | 6870 ± 170     |                 | 15        | B                         | 36765              | 8050 ± 140     |
| S38             | 12        | G                         | 31487              | 7240 ± 90      |                 | 23        | C                         | 36767              | Insufficient C |
|                 | 13        | A                         | 30117              | 7210 ± 130     |                 | 30        | D                         | 36766              | Insufficient C |
|                 | 14        | B                         | 30118              | 3380 ± 200     |                 | 37        | E                         | 36768              | 26820 ± 1340   |
|                 | 18        | C                         | 30119              | 21090 ± 600    | S48             | 3         | A                         | 37298              | 1610 ± 60      |
|                 | 23        | D                         | 30120              | Insufficient C |                 | 4.5       | B                         | 37299              | 1670 ± 50      |
|                 | 29.5      | E                         | 30121              | Insufficient C |                 | 7.5       | C                         | 37300              | 4480 ± 80      |
|                 | 31        | F                         | 30122              | > 29260        |                 | 14        | D                         | 37301              | 6340 ± 100     |
| S39             | 1.5       | D                         | 33122              | 3840 ± 100     | S49             | 6         | A                         | 36769              | 3190 ± 90      |
|                 | 2.5       | A                         | 29858              | 4540 ± 290     |                 | 11        | B                         | 36770              | 5410 ± 100     |
|                 | 4         | C                         | 29860              | Insufficient C |                 | 15        | C                         | 36771              | 7170 ± 180     |
|                 | 13.5      | E                         | 33123              | 21700 ± 2460   |                 | 26        | D                         | 36772              | Insufficient C |
|                 | 13.5      | B                         | 29859              | 11320 ± 290    | S50             | 4.5       | A                         | 37302              | 2870 ± 80      |
| S40             | 3         | E                         | 33124              | 3430 ± 110     |                 | 16        | B                         | 37303              | 6600 ± 80      |
|                 | 15.5      | A                         | 29861              | 7450 ± 120     |                 | 24        | C                         | 37304              | 7950 ± 90      |
|                 | 16.5      | C                         | 29863              | 3540 ± 150     |                 | 25.5      | D                         | 37305              | 11040 ± 330    |
|                 | 25.5      | D                         | 29864              | 6050 ± 140     | S51             | 5.5       | A                         | 37747              | 3800 ± 60      |
|                 | 27.5      | F                         | 33125              | 19350 ± 950    |                 | 8         | B                         | 37748              | 5930 ± 130     |
|                 | 26.5      | B                         | 29862              | Insufficient C |                 | 11.5      | C                         | 37749              | 6580 ± 110     |
| S41             | 8.5       | D                         | 29867              | Insufficient C | S52             | 2         | A                         | 37750              | 1670 ± 60      |
|                 | 9         | F                         | 31489              | 3060 ± 70      |                 | 6         | B                         | 37751              | 3250 ± 100     |
|                 | 18        | A                         | 31488              | 6630 ± 250     |                 | 7.5       | C                         | 37752              | 4790 ± 70      |
|                 | 20        | B                         | 29865              | 6330 ± 100     |                 | 11.5      | D                         | 37753              | 6550 ± 80      |
|                 | 20.5      | E                         | 29868              | 3490 ± 100     |                 | 12        | E                         | 37754              | 10510 ± 130    |
|                 | 24        | C                         | 29866              | Insufficient C | S53             | 4         | A                         | 37755              | 2470 ± 60      |
|                 | 25        | D                         | 29867              | Insufficient C |                 | 10        | B                         | 37756              | 5820 ± 100     |
|                 | 25.5      | G                         | 33126              | Insufficient C |                 | 11        | C                         | 37757              | 11930 ± 170    |
|                 | 14.5      | G                         | 31490              | 3870 ± 110     |                 | 14.5      | D                         | 37758              | Insufficient C |
| S42             | 5         | E                         | 31492              | 3610 ± 110     | S54             | 5         | A                         | 38098              | 3080 ± 70      |
|                 | 11        | F                         | 31493              | 4890 ± 100     |                 | 9.5       | B                         | 38099              | 5990 ± 100     |
|                 | 21        | D                         | 31491              | 7410 ± 100     |                 | 10        | C                         | 38100              | 12310 ± 120    |
|                 | 23        | A                         | 29869              | 8290 ± 120     |                 | 14.5      | D                         | 38101              | 22820 ± 770    |
|                 | 24        | B                         | 29870              | 6730 ± 150     | S55             | 3.5       | A                         | 37759              | 2420 ± 110     |
|                 | 28        | C                         | 29871              | 7860 ± 90      |                 | 6         | B                         | 37760              | 3400 ± 100     |
| S43             | 4         | E                         | 31494              | 4620 ± 130     |                 | 7         | C                         | 37761              | 4170 ± 90      |
|                 | 7         | F                         | 31495              | 5610 ± 110     |                 | 9.5       | D                         | 37762              | 14120 ± 160    |
|                 | 14        | A                         | 29872              | 6970 ± 110     | S56             | 8.5       | A                         | 37763              | 1490 ± 80      |
|                 | 14.5      | D                         | 29875              | Insufficient C |                 | 6         | A                         | 38102              | 3630 ± 70      |
|                 | 18        | B                         | 29873              | Insufficient C | S57             | 12        | B                         | 38103              | 6310 ± 90      |
|                 | 18.5      | E                         | 33127              | Insufficient C |                 | 13.5      | C                         | 38104              | 13630 ± 100    |
|                 | 25        | F                         | 33128              | Insufficient C | S58             | 3         | A                         | 38091              | 3020 ± 80      |
| S44             | 24.5      | C                         | 29874              | Insufficient C |                 | 5.5       | B                         | 38092              | 3770 ± 80      |
|                 | 2         | A                         | 46010              | 2570 ± 70      |                 | 11.5      | C                         | 38093              | 4890 ± 80      |
|                 | 5         | B                         | 46011              | 3980 ± 80      |                 | 16        | D                         | 38094              | 7500 ± 70      |
|                 | 6.5       | C                         | 46012              | 3260 ± 90      | S59             | 11.5      | A                         | 37306              | 3140 ± 100     |
|                 | 10.5      | A                         | 30123              | 6370 ± 180     |                 | 17        | B                         | 37307              | 3560 ± 80      |
|                 | 14        | B                         | 30124              | Insufficient C |                 | 27.5      | C                         | 37308              | 9110 ± 120     |
| S45             | 14.5      | C                         | 33129              | 15600 ± 290    | S60             | 8.5       | A                         | 36773              | 4760 ± 110     |
|                 | 12.5      | A                         | 30125              | 7100 ± 160     |                 | 11        | C                         | 36774              | 5020 ± 90      |
|                 | 13        | B                         | 30126              | Insufficient C |                 |           |                           |                    |                |
|                 | 19        | C                         | 30127              | 24320 ± 1080   |                 |           |                           |                    |                |
|                 | 24        | D                         | 30128              | 29000 ± 1380   |                 |           |                           |                    |                |



| Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) | Borehole number | Depth (m) | Smithsonian sample number | Beta sample number | Age (years BP) |
|-----------------|-----------|---------------------------|--------------------|----------------|-----------------|-----------|---------------------------|--------------------|----------------|
| S61             | 1.5       | A                         | 37309              | 2990 ± 80      | S77             | 8         | B                         | 45642              | 6680 ± 100     |
|                 | 6         | B                         | 37310              | 4220 ± 100     |                 | 5.5       | A                         | 46283              | 6430 ± 90      |
|                 | 13        | C                         | 37311              | 3430 ± 110     |                 | 8.5       | B                         | 46284              | 6170 ± 110     |
|                 | 16.5      | D                         | 37312              | 7310 ± 100     |                 | 10.5      | E                         | 48367              | > 28000        |
| S62             | 6         | A                         | 38095              | 3660 ± 70      | S78             | 11.5      | C                         | 46285              | Insufficient C |
|                 | 13        | B                         | 38096              | 6220 ± 100     |                 | 17        | D                         | 46286              | Insufficient C |
|                 | 17.5      | C                         | 38097              | 7160 ± 70      | S79             | 4.5       | A                         | 46287              | 3250 ± 60      |
| S63             | 19        | A                         | 36775              | 6590 ± 110     |                 | 6.5       | B                         | 46288              | 6730 ± 70      |
| S64             | 13.5      | A                         | 37313              | 2250 ± 100     |                 | 7.5       | C                         | 46289              | 15920 ± 140    |
|                 | 19.5      | B                         | 37314              | 3780 ± 120     | S80             | 4         | D                         | 48368              | 3850 ± 80      |
| S65             | -         | -                         | None               | -              |                 | 4.5       | A                         | 47331              | 4480 ± 70      |
| S66             | 6.5       | A                         | 45078              | 4020 ± 100     |                 | 5         | B                         | 47332              | 17900 ± 220    |
|                 | 9         | B                         | 45079              | 3950 ± 70      | S81             | 6.5       | C                         | 47333              | Insufficient C |
|                 | 12        | C                         | 45080              | 5480 ± 80      |                 | 3         | A                         | 46290              | Insufficient C |
|                 | 14.5      | D                         | 45081              | 7230 ± 70      |                 | 3.5       | C                         | 48369              | 3530 ± 60      |
| S67             | 5         | A                         | 45633              | 11890 ± 380    |                 | 7.5       | D                         | 48370              | 23070 ± 1880   |
| S68             | 5         | A                         | 45082              | 2730 ± 80      | S82             | 8         | B                         | 46291              | Insufficient C |
|                 | 6.5       | B                         | 45083              | 4980 ± 70      |                 | 1.5       | A                         | 48371              | 1350 ± 80      |
|                 | 13.5      | C                         | 45084              | 6830 ± 80      |                 | 2.5       | D                         | 48372              | 19630 ± 140    |
|                 | 14        | D                         | 45085              | 7170 ± 70      |                 | 3         | B                         | 47334              | 28200 ± 460    |
| S69             | 3.5       | A                         | 45634              | 4410 ± 80      | S83             | 5.5       | E                         | 48373              | 29480 ± 330    |
|                 | 7.5       | C                         | 46282              | 23670 ± 370    |                 | 11        | F                         | 48374              | > 38000        |
|                 | 12.5      | B                         | 45635              | 35260 ± 610    |                 | 12.5      | C'                        | 47335              | Insufficient C |
| S70             | 2.5       | A                         | 45086              | 3220 ± 120     |                 | 3         | C                         | 48375              | 5050 ± 70      |
|                 | 4         | B                         | 45087              | 3690 ± 140     | S84             | 3.5       | A                         | 46292              | 5850 ± 150     |
| S71             | 2         | C                         | 48364              | 3030 ± 90      |                 | 4         | D                         | 48376              | 16540 ± 220    |
|                 | 5.5       | A                         | 45636              | 4660 ± 80      |                 | 4.5       | B                         | 46293              | Insufficient C |
|                 | 12        | D                         | 48365              | 6860 ± 50      |                 | 3         | E                         | 58280              | 5410 ± 120     |
|                 | 12.5      | B                         | 45637              | 7250 ± 100     | S85             | 3.5       | D                         | 48379              | 8350 ± 140     |
| S72             | 4.5       | A                         | 46014              | 2900 ± 70      |                 | 4         | A                         | 47336              | 8860 ± 130     |
|                 | 8.5       | B                         | 46015              | 6420 ± 80      |                 | 4.5       | B                         | 48377              | 14990 ± 100    |
| S73             | 4.5       | A                         | 45638              | 3990 ± 90      |                 | 5         | C                         | 48378              | 24770 ± 240    |
|                 | 12.5      | B                         | 45639              | 7590 ± 90      | S86             | 1         | C                         | 48380              | 2890 ± 60      |
|                 | 12        | D                         | 48366              | 12760 ± 110    |                 | 2         | A                         | 46294              | 16760 ± 120    |
|                 | 14.5      | C                         | 45640              | Insufficient C |                 | 2.5       | D                         | 48381              | 23510 ± 260    |
| S74             | 3.5       | A                         | 45088              | 6290 ± 140     |                 | 5.5       | B                         | 46295              | 39350 ± 800    |
|                 | 8.5       | B                         | 45089              | 6420 ± 90      | S87             | 2.5       | B                         | 48382              | 20330 ± 270    |
| S75             | 2.5       | A                         | 46016              | 2900 ± 60      |                 | 6.5       | A                         | 46296              | > 39730        |
|                 | 7         | B                         | 46017              | 5830 ± 90      |                 | 1.5       | A                         | 51454              | 1690 ± 80      |
|                 | 13.5      | C                         | 46018              | 6960 ± 110     |                 | 7         | B                         | 51455              | 4910 ± 100     |
| S76             | 5         | A                         | 45641              | 4950 ± 130     |                 | 16.5      | C                         | 51456              | 6430 ± 110     |
|                 |           |                           |                    |                | S87             | 0.5       | A                         | 51457              | 1720 ± 80      |
|                 |           |                           |                    |                |                 | 9         | B                         | 51458              | 7030 ± 130     |



- 1992 Chen, Warne, and Stanley: Northwestern delta
- 1992 Leroy: Palynology and climate change
- 1993 Dominik and Stanley: Trace elements and climate change
- 1993a Stanley and Warne: Synthesis of effects on the delta
- 1993b Stanley and Warne: Sea-level effects and archeology
- 1993 Stanley: Severe climatic effects in winter of 1992
- 1993b Warne and Stanley: Northwestern delta
- 1994 Stanley and Warne: Sea level and its role in Holocene delta initiation
- 1995 Warne and Stanley: World deltas concurrently affected by sea level

#### CHRONO- AND LITHOSTRATIGRAPHIC CORRELATIONS.—

Many of the project studies depict core-to-core correlations, most involving well-defined radiocarbon-dated lithofacies in the delta proper and sectors seaward of the coast to the Nile Cone.

- 1983 Stanley and Maldonado: Outer Nile shelf and Nile Cone
- 1985 Stanley and Wetzel: Nile Cone and southeastern Mediterranean
- 1985 Anastasakis and Stanley: Nile Cone
- 1987 Coutellier and Stanley: Northeastern delta
- 1987 Kulyk: Using foraminifera, northeastern delta
- 1988 Frihy and Stanley: Methods using petrology
- 1988a Stanley: Nile delta shelf
- 1988 Gerber: Using geochemistry, northeastern delta
- 1989 Pimmel and Stanley: Delta-front and prodelta facies
- 1989 Gupta: Using trace elements, northeastern delta
- 1990 Stanley: Correlations to measure subsidence of the delta plain
- 1990 Shergill: Using geochemistry, northeastern delta
- 1991 Arbouille and Stanley: North-central delta
- 1991 Howa and Stanley: Using plant biofacies, across the northern delta
- 1991 Pugliese and Stanley: Biofacies correlations, northeastern delta
- 1992 Stanley, Warne et al.: North-central delta
- 1992 Chen, Warne, and Stanley: Northwestern delta
- 1993b Warne and Stanley: Northwestern delta
- 1993a Stanley and Warne: Synthesis of delta correlations

**PROVENANCE, DISPERSAL, AND PALEOGEOGRAPHY.**—This group of investigations includes topics pertaining to the origin and dispersal of sediments, displacement of depositional environments, and paleogeographic changes through time in the Nile delta. This category is based on correlation of well-defined, radiocarbon-dated lithofacies of late Pleistocene to Holocene age.

- 1983 Stanley and Maldonado: Outer Nile shelf and Nile Cone
- 1985 Gerges and Stanley: Northern Suez Canal
- 1985 Stanley and Wetzel: Nile Cone and southeastern Mediterranean
- 1985 Anastasakis and Stanley: Outer Nile shelf and Nile Cone
- 1987 Coutellier and Stanley: Northeastern delta
- 1989 Foucault and Stanley: Upper River Nile system to the northern delta
- 1989 Stanley: Nile delta to Israeli margin, based on heavy minerals
- 1990 Abu-Zeid and Stanley: Northeast delta, based on clays
- 1991 Abdel Wahab and Stanley: North-central delta, based on clays
- 1991 Arbouille and Stanley: North-central delta
- 1992 Stanley, Warne et al.: North-central delta
- 1992 Chen, Warne, and Stanley: Northwestern delta
- 1993 Chen and Stanley: Central delta plain
- 1993b Warne and Stanley: Northwestern delta
- 1993a Stanley and Warne: Synthesis of lower delta plain
- 1993 Slaboda: Trace elements in Manzala Lagoon
- 1995 Frihy, Moussa, and Stanley: Abu Qir Bay
- 1995 Schneiderman: Lower River Nile system, based on mineralogy

**ARCHEOLOGICAL CONSIDERATIONS.**—Publications in this category involve the results of petrological, sedimentological, and stratigraphic analyses in archaeological investigations.

- 1986 Stanley and Sheng: Santorini volcanic shards, Manzala Lagoon region, and possible Biblical exodus
- 1992 Stanley, Arnold, and Warne: Discovery of oldest Pharaonic site in the northern delta
- 1993 Allen, Hamroush, and Stanley: Egyptian civilization, environmental change, and geochemistry
- 1993b Stanley and Warne: Predynastic culture as related to sea level
- 1993a Warne and Stanley: Northern delta archaeological site and subsidence rates

**ANTHROPOGENIC FACTORS AND IMPACT.**—A series of studies takes into account the growing influence of humans on the Nile delta, including the much altered River Nile system and pollution.

- 1985 Gerges and Stanley: Human influence on the northern Suez Canal
- 1993 Loizeau and Stanley: Altered Idku Lagoon environment
- 1993a Stanley and Warne: Effects of altered River Nile system and predictions for the future



- 1993 Stanley: Some recent anthropogenic effects and responses in the Alexandria region
- 1994 Loizeau and Stanley: Altered Mariut Lagoon subenvironment
- 1994 Siegel, Slaboda, and Stanley: Recent increased pollution in Manzala Lagoon

**NILE DELTA LAGOONS.**—Increased attention is being paid to the recent evolution of the shallow Manzala, Burullus, Idku, and Mariut water bodies in the northern Nile delta and the sedimentary and faunal facies therein.

- 1992 Randazzo: Petrology of recent Manzala Lagoon deposits
- 1992 Longo: Molluscan faunas and palaeoecology in modern lagoons
- 1993 Loizeau and Stanley: Changing lithofacies, Idku Lagoon
- 1994 Loizeau and Stanley: Changing lithofacies, Mariut Lagoon
- 1994 Bernasconi and Stanley: Changes in molluscan biofacies
- 1994 Siegel, Slaboda, and Stanley: Recently increased pollution in Manzala Lagoon

**COMPARING THE NILE WITH OTHER WORLD DELTAS.**—A more recent research effort considers attributes of the Holocene Nile delta, which enable it to be compared with other such depocenters elsewhere in the world. Of special consideration are the timing and factors responsible for initiation of modern world deltas.

- 1986 Stanley: Mediterranean deltas, fans, and cones
- 1994 Stanley and Warne: Timing of delta initiation and the role of sea level
- 1995 Warne and Stanley: Comparing factors controlling the development of world deltas

### Applications For Delta Management

The northern Nile delta is presently undergoing rapid environmental deformation and ecological decline. Most serious are the combined effects of natural factors, such as land subsidence and rising sea level, with anthropogenic factors, such as irrigation and damming. This results in, among other changes, seawater incursion into the delta's water table and coastal erosion (Stanley and Warne, 1993a). Salination has increased substantially since closure of the Aswan High Dam in 1964, reducing agricultural productivity (Biswas, 1993) and altering the chemistry of the delta's lagoon and lake waters (Kerambrun, 1986). The dam now controls the flood cycle, which previously flushed the delta plain and prevented substantial accumulation of salts in this evaporitic setting. Also significant is the trapping of sediments at Lake Nasser behind

the dam, reducing nutrients formerly carried downstream in the flow to the delta and offshore. At the same time, the rapidly increasing population has necessitated intensified agricultural development, unprecedented municipal expansion, accelerated diversion of Nile waters through a dense and complex irrigation system, and land reclamation of vital delta water bodies, such as lagoons and marshes. These activities, particularly the much-reduced sediment discharge, have also contributed to heightened coastal erosion by Mediterranean nearshore currents (Figure 10).

It is our hope that the information collected in this document can be of assistance to geologists, ecologists, agronomists, and engineers having the responsibility of maintaining and improving environmental conditions in the lower Nile delta plain. With the available database, specialists will be able to distinguish and measure changes, both natural- and human-induced, over time. Our work, focusing on dated subsurface sedimentary sections, serves this purpose for the lower Nile delta from the time of its initiation in the early Holocene (~8000 years ago) to the 1990s. Of primary value are the data serving to compile paleogeographic reconstructions of the northern delta, including positions of earlier Nile channels, strandplains, lagoons, and marshes, prior to and during the early phases of human settlement.

Data gathered from the borings provide a means to distinguish the effects of natural from anthropogenic factors. In essence, we have compiled a temporal and spatial record of change from the time when human impact was minimal, prior to ~7000 years ago (Stanley and Warne, 1993b), when sea-level and climate oscillations, neotectonism, and effects of fluvial and coastal processes were dominant in controlling the configuration of the lower Nile delta plain. Although our data indicate that fluctuations of these natural factors continue to modify the delta, the record shows that the escalating role of people began to overtake the influence of natural factors as early as the Dynastic period (Butzer, 1976). Since the beginning of Egypt's industrialization, and particularly since the latter part of the nineteenth and the beginning of the twentieth century (when the first dam at Aswan was completed, along with a series of barrages and River Nile channelization projects), our records show that human influence on the delta has expanded by several orders of magnitude. The dated borings thus serve as a gauge against which present changes can be compared. For example, rates and amounts of land subsidence and delta tilting (Stanley, 1990) and recent increases in pollutants in lagoon and marsh areas can be measured accurately against the long-term record (Siegel et al., 1994).

As in the case of many of the world's major deltas, the Nile is low-lying and highly vulnerable to even minor changes in sea level and subsidence. Inasmuch as the sediment supply has now been artificially curtailed, this depocenter has become increasingly subject to marine incursion, which further reduces its





FIGURE 10.—Section of the town of Ras El-Barr at the Damietta promontory (north of Damietta, D on Figure 1), recently abandoned and undergoing destruction by intense coastal current erosion. Relatively rapid incursion of the sea in this region is due to concurrent subsidence of land and rise in sea level as indicated by analyses of radiocarbon-dated drill cores. Photograph taken in October 1992. (Courtesy of G. Drapeau.)

ability to sustain a dense and burgeoning population. Given this rapidly changing dynamic of interplay among human and natural factors, the availability of a comprehensive database

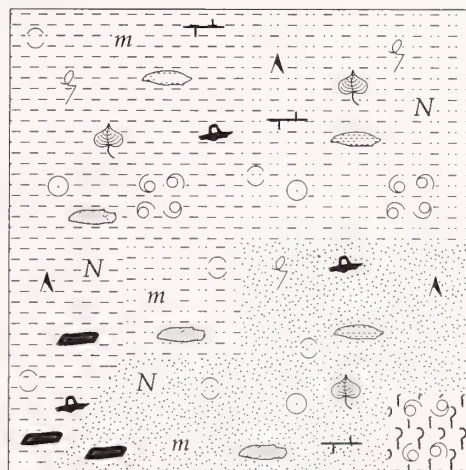
becomes essential for the implementation of effective protection measures in a region where dependency on agricultural production has reached a critical stage.





# Appendix 1: Core Lithological Logs

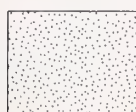
## Legend for core logs S1-S87

|   |                  |
|---|------------------|
|    | Plant Fossil     |
|    | Root             |
|    | Shell Fragments  |
|    | Potsherd         |
|    | Gypsum           |
|    | Whole Shell      |
|    | Organic Matter   |
|    | Mica             |
|    | Nodule           |
|    | Pebbles          |
|    | Sand Pocket      |
|    | Clay Pocket      |
|   | Limestone Pocket |
|  | Limestone        |

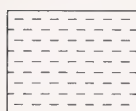


|   |                    |
|---|--------------------|
| I   | Core               |
| W <sub>1</sub>  | Washing            |
| 3   | Sample             |
|  | Spoon Sample       |
|  | Radiocarbon Sample |

### Lithologic Patterns



Sand



Clay



Silt/Mud



Peat

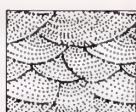
### Structural Patterns



Planar  
Laminae



Non-  
Planar  
Beds



Cross-  
Bedded



Bio-  
turbated

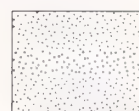


Peat

### Textural Patterns



Silt



Sand

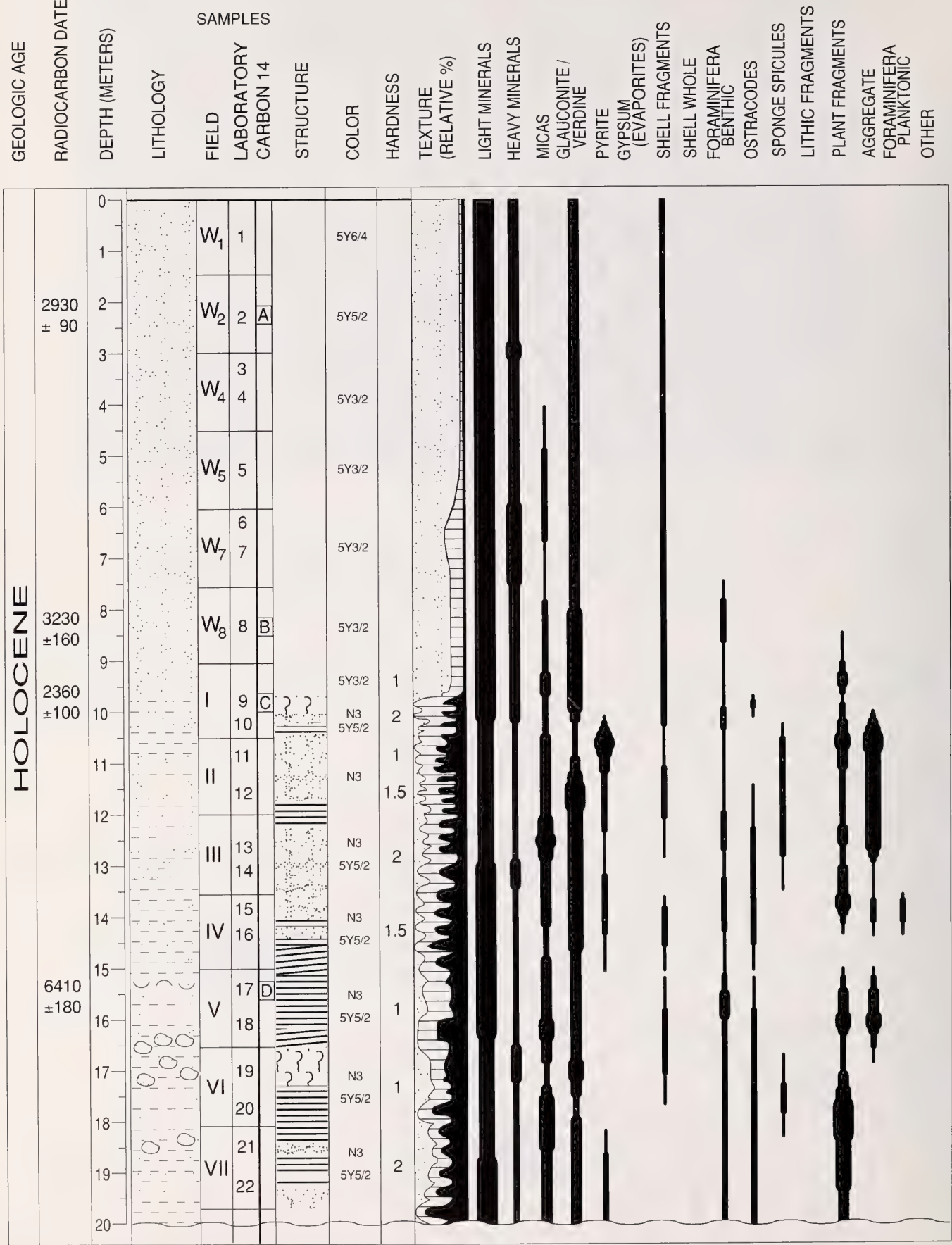


Clay



APPENDIX 1.—Continued.

CORE NUMBER S1 I



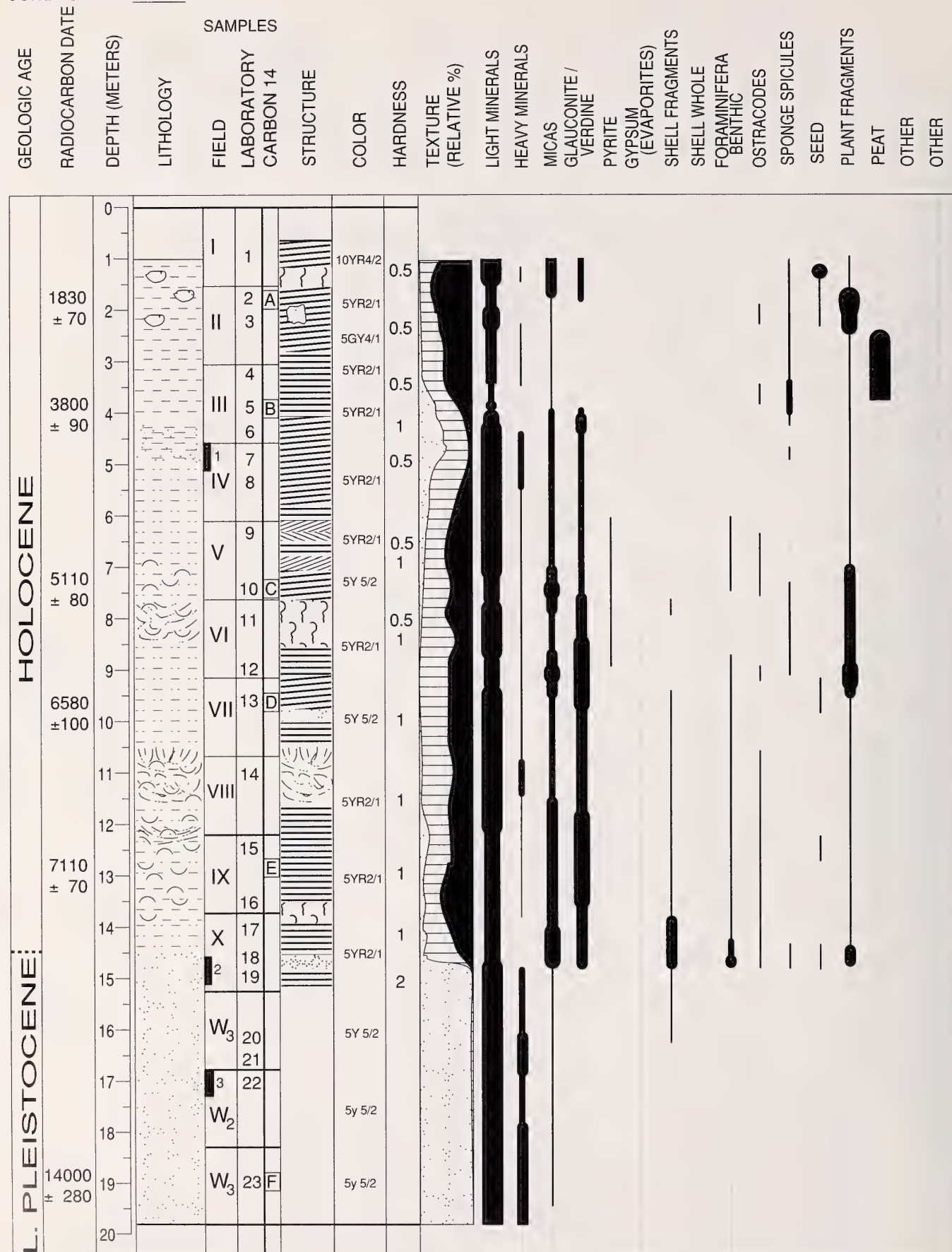


## CORE NUMBER S1 II

[illegible]



## CORE NUMBER S2









CORE NUMBER S4

[illegible]





CORE NUMBER S5 II

[illegible]



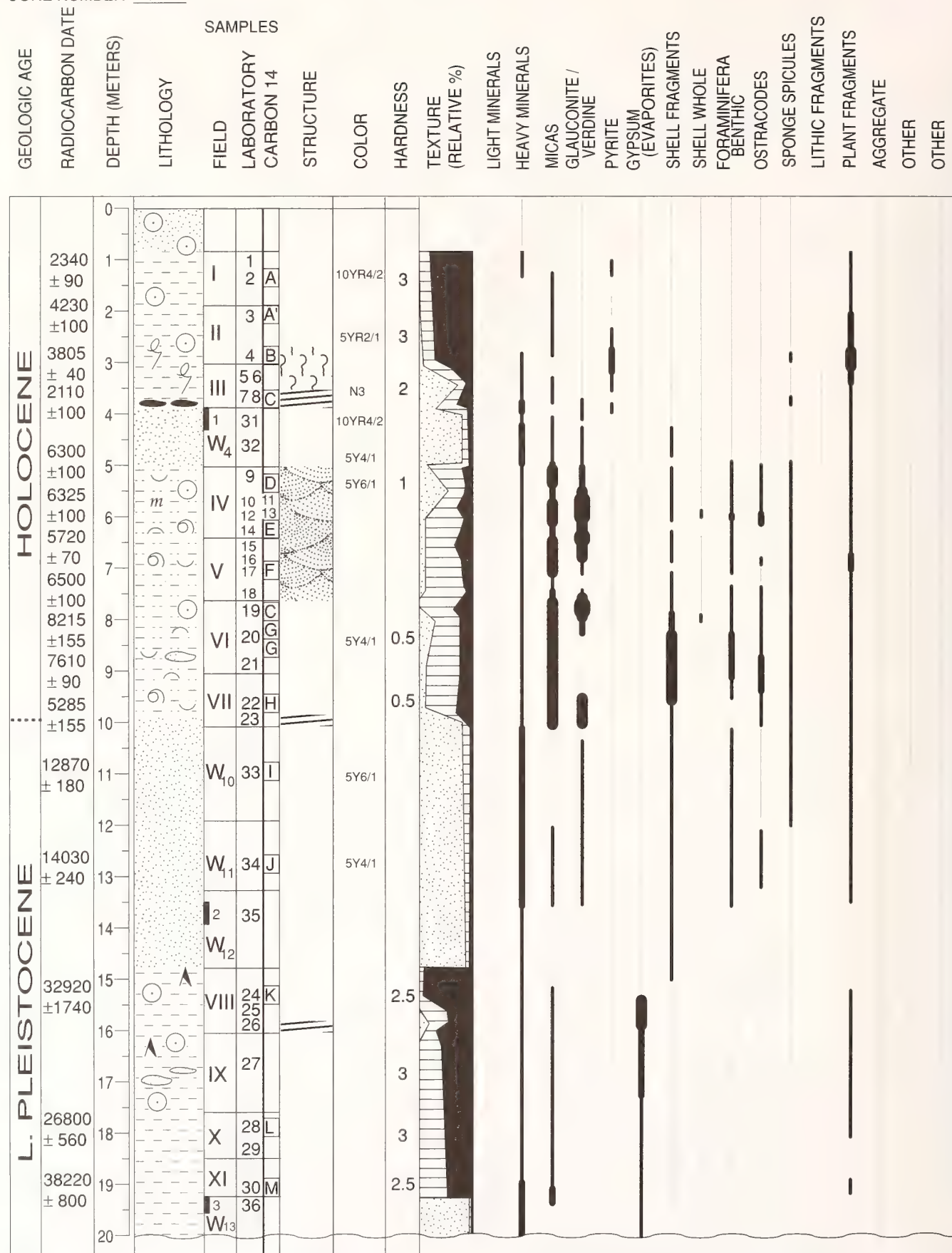


## APPENDIX 1.—Continued.

CORE NUMBER S6 II[illegible]



CORE NUMBER S7 I













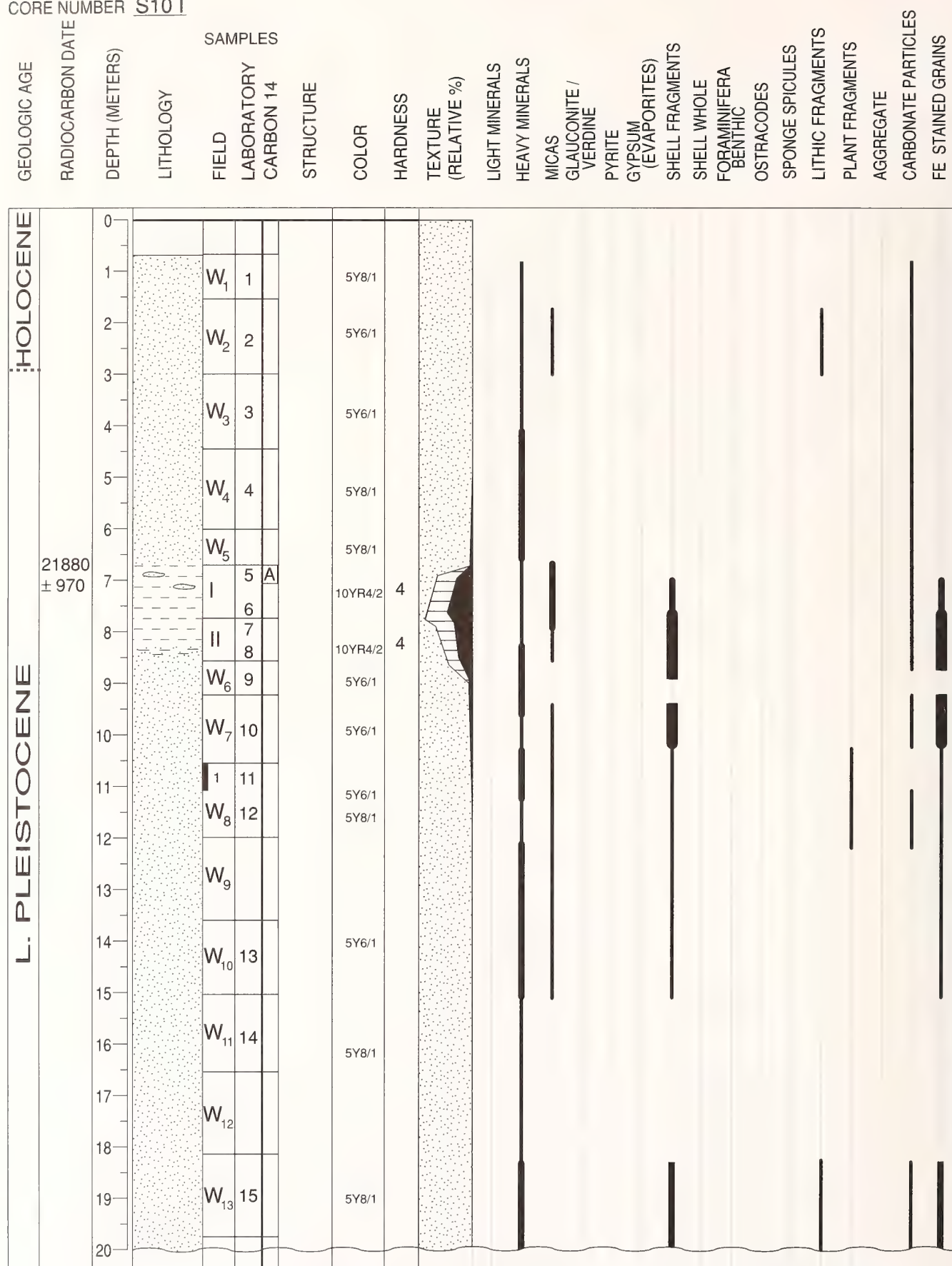
CORE NUMBER S8 III[illegible]

CORE NUMBER S9

[illegible]

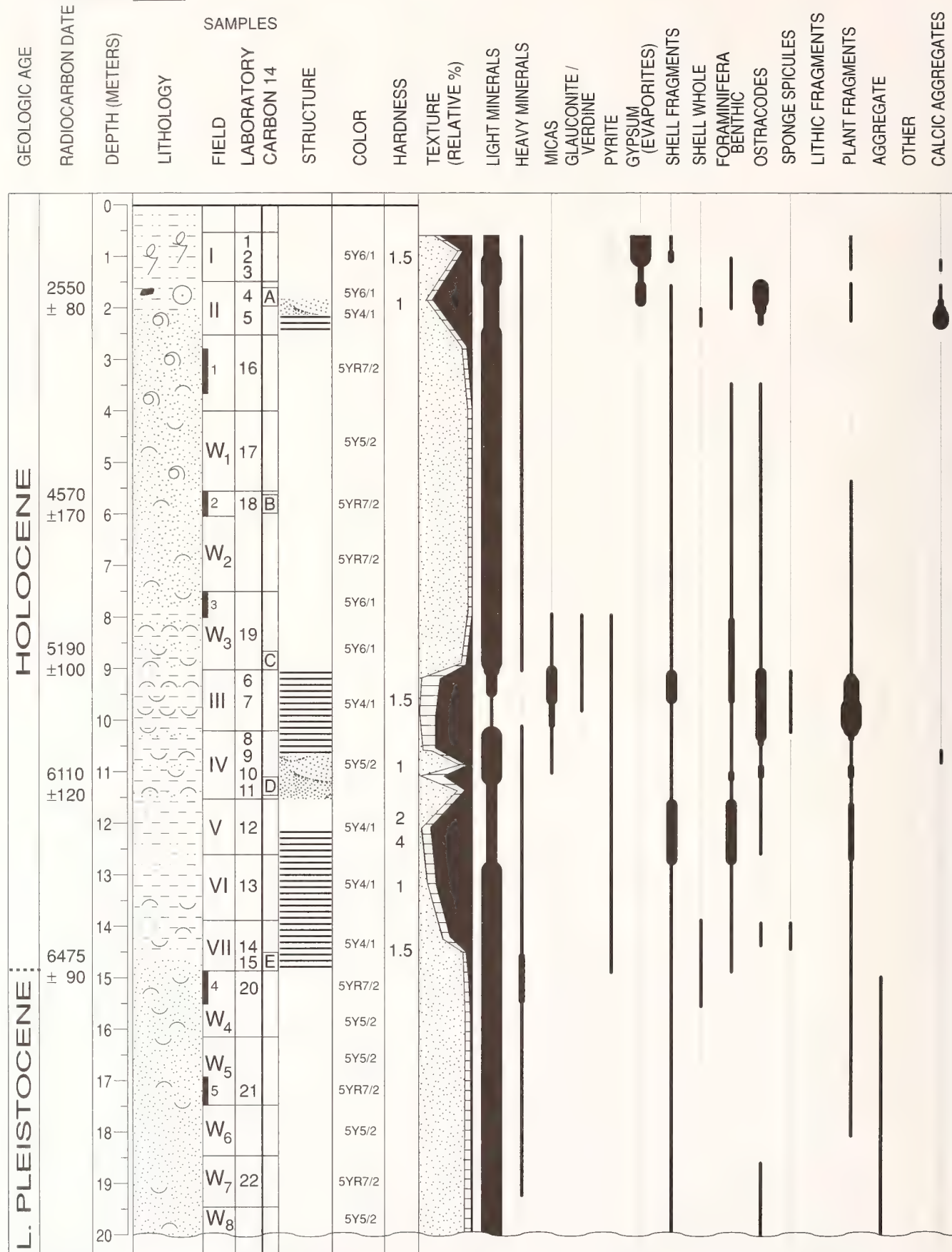


## APPENDIX 1.—Continued.

CORE NUMBER S10 I

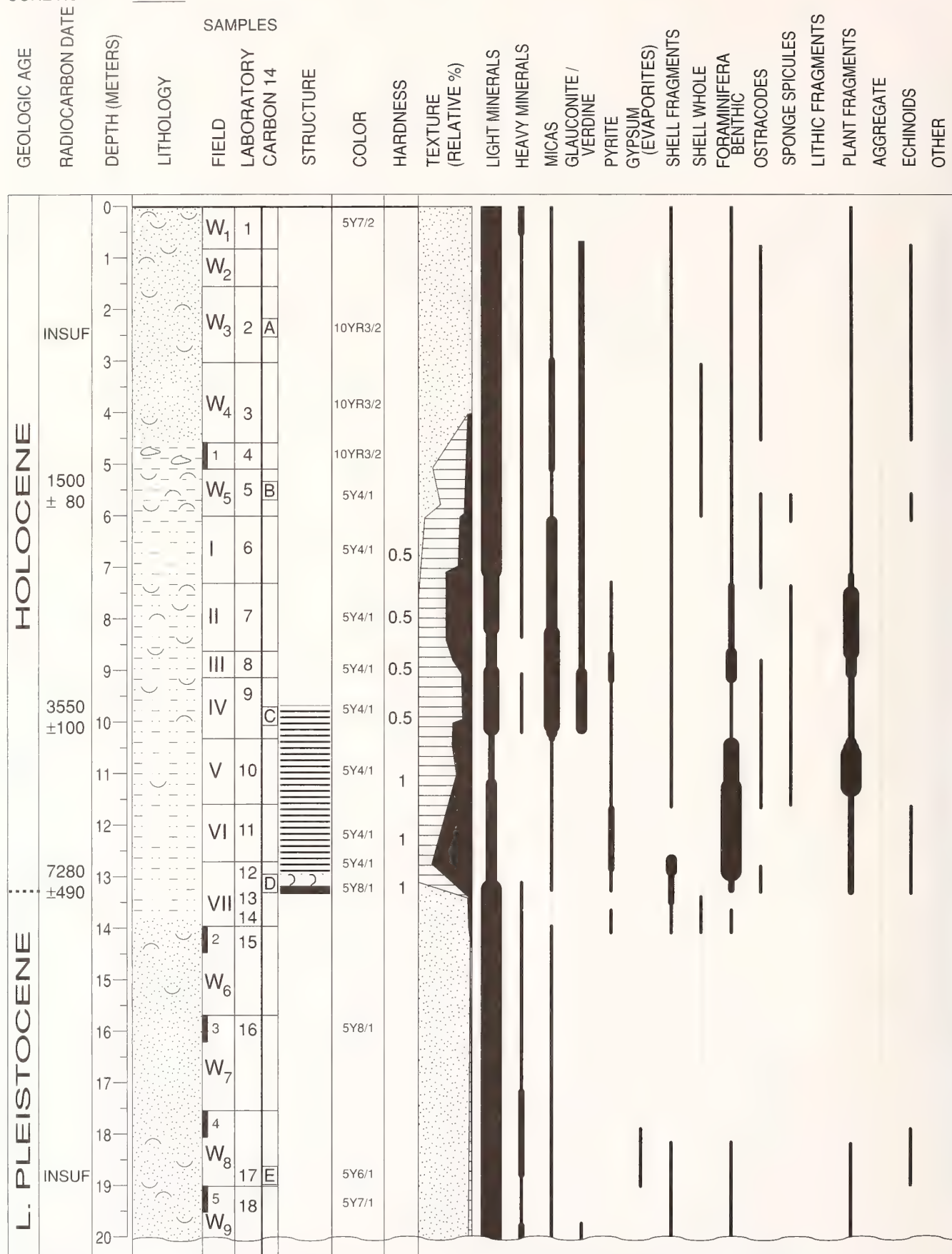




CORE NUMBER S11 I

[illegible]



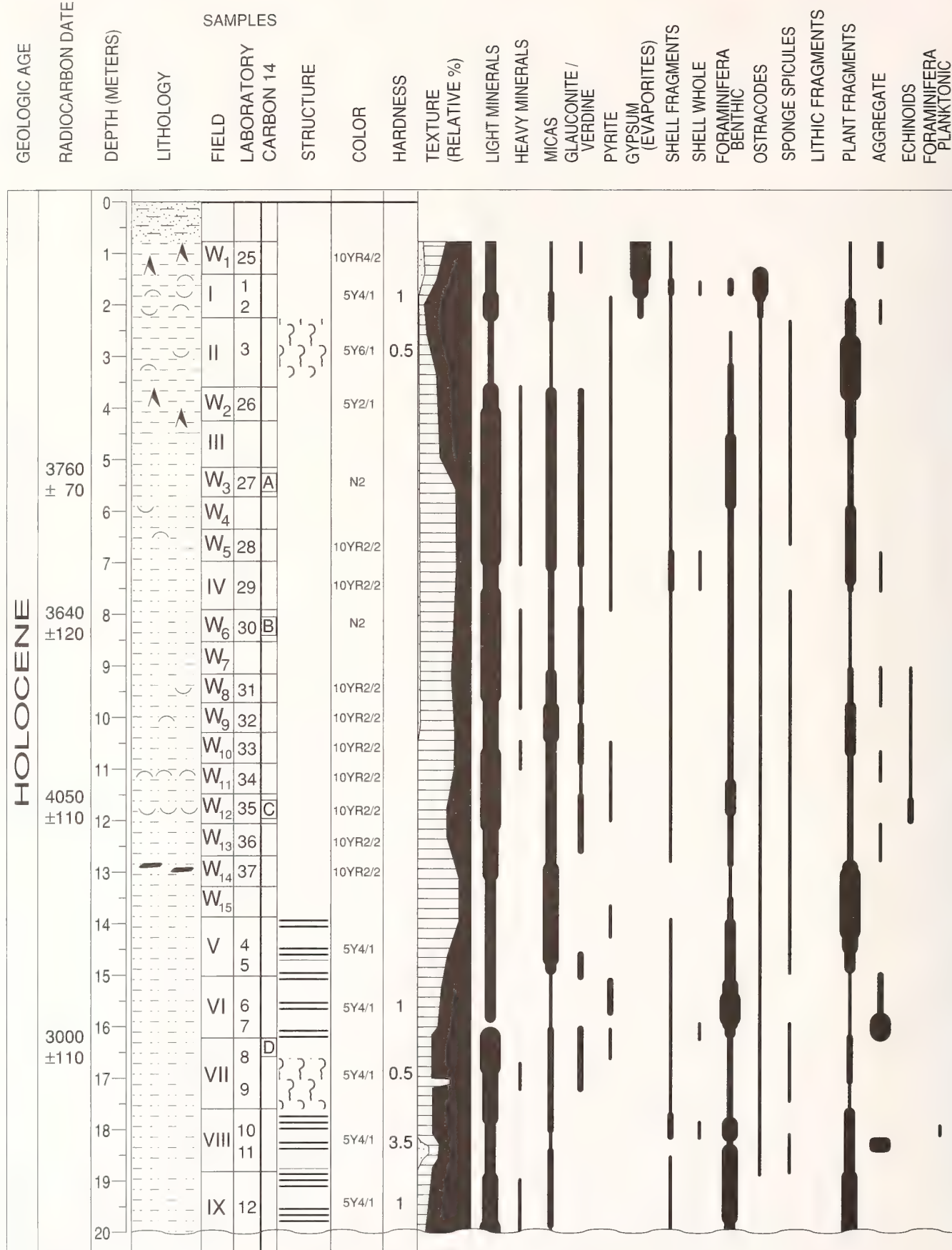
CORE NUMBER S121

## CORE NUMBER S12 II

[illegible]



CORE NUMBER S131



CORE NUMBER S13 II

[illegible]





CORE NUMBER S14 II

| L. PLEISTOCENE |           |                      |            | GEOLOGIC AGE     |
|----------------|-----------|----------------------|------------|------------------|
| INSUF          |           |                      |            | RADIOCARBON DATE |
| DEPTH (METERS) | LITHOLOGY | SAMPLES              |            |                  |
|                |           | FIELD                | LABORATORY |                  |
|                |           |                      | CARBON 14  |                  |
|                |           | STRUCTURE            |            |                  |
|                |           | COLOR                |            |                  |
|                |           | HARDNESS             |            |                  |
|                |           | TEXTURE (RELATIVE %) |            |                  |
|                |           | LIGHT MINERALS       |            |                  |
|                |           | HEAVY MINERALS       |            |                  |
|                |           | MICAS                |            |                  |
|                |           | GLAUCONITE / VERDINE |            |                  |
|                |           | PYRITE               |            |                  |
|                |           | GYPSUM (EVAPORITES)  |            |                  |
|                |           | SHELL FRAGMENTS      |            |                  |
|                |           | SHELL WHOLE          |            |                  |
|                |           | FORAMINIFERA BENTHIC |            |                  |
|                |           | OSTRACODES           |            |                  |
|                |           | CALCIC CEMENT        |            |                  |
|                |           | LITHIC FRAGMENTS     |            |                  |
|                |           | PLANT FRAGMENTS      |            |                  |
|                |           | AGGREGATE            |            |                  |
|                |           | SILICIFIED WOOD      |            |                  |
|                |           | OTHER                |            |                  |

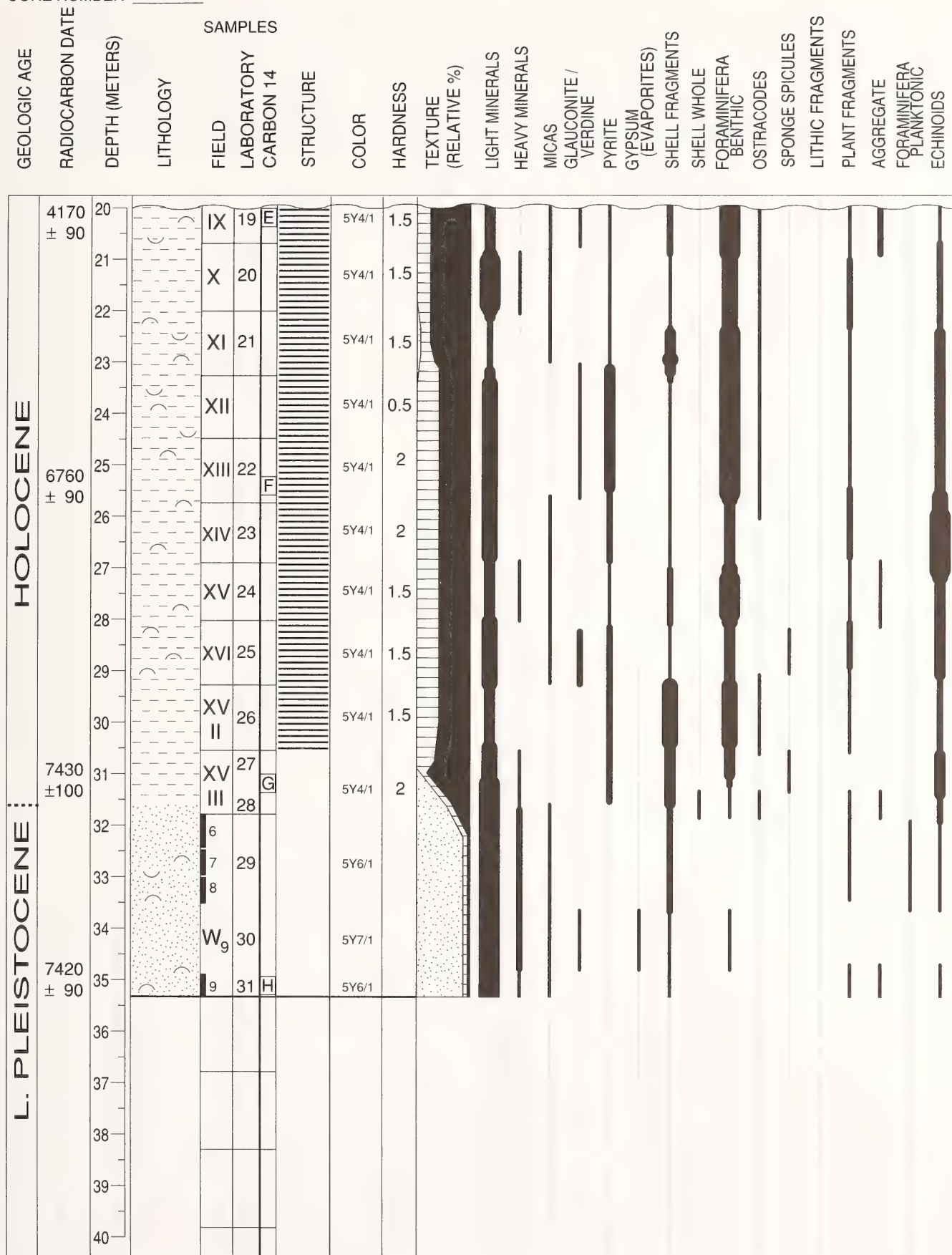
|    |  |                 |    |   |         |
|----|--|-----------------|----|---|---------|
| 20 |  | W <sub>9</sub>  | 21 |   | 5Y6/4   |
| 21 |  | 7               |    |   |         |
| 22 |  | W <sub>10</sub> | 22 | H | 10YR5/4 |
| 23 |  | 8               | 23 |   | 10YR5/4 |
| 24 |  |                 |    |   |         |
| 25 |  |                 |    |   |         |
| 26 |  |                 |    |   |         |
| 27 |  |                 |    |   |         |
| 28 |  |                 |    |   |         |
| 29 |  |                 |    |   |         |
| 30 |  |                 |    |   |         |
| 31 |  |                 |    |   |         |
| 32 |  |                 |    |   |         |
| 33 |  |                 |    |   |         |
| 34 |  |                 |    |   |         |
| 35 |  |                 |    |   |         |
| 36 |  |                 |    |   |         |
| 37 |  |                 |    |   |         |
| 38 |  |                 |    |   |         |
| 39 |  |                 |    |   |         |
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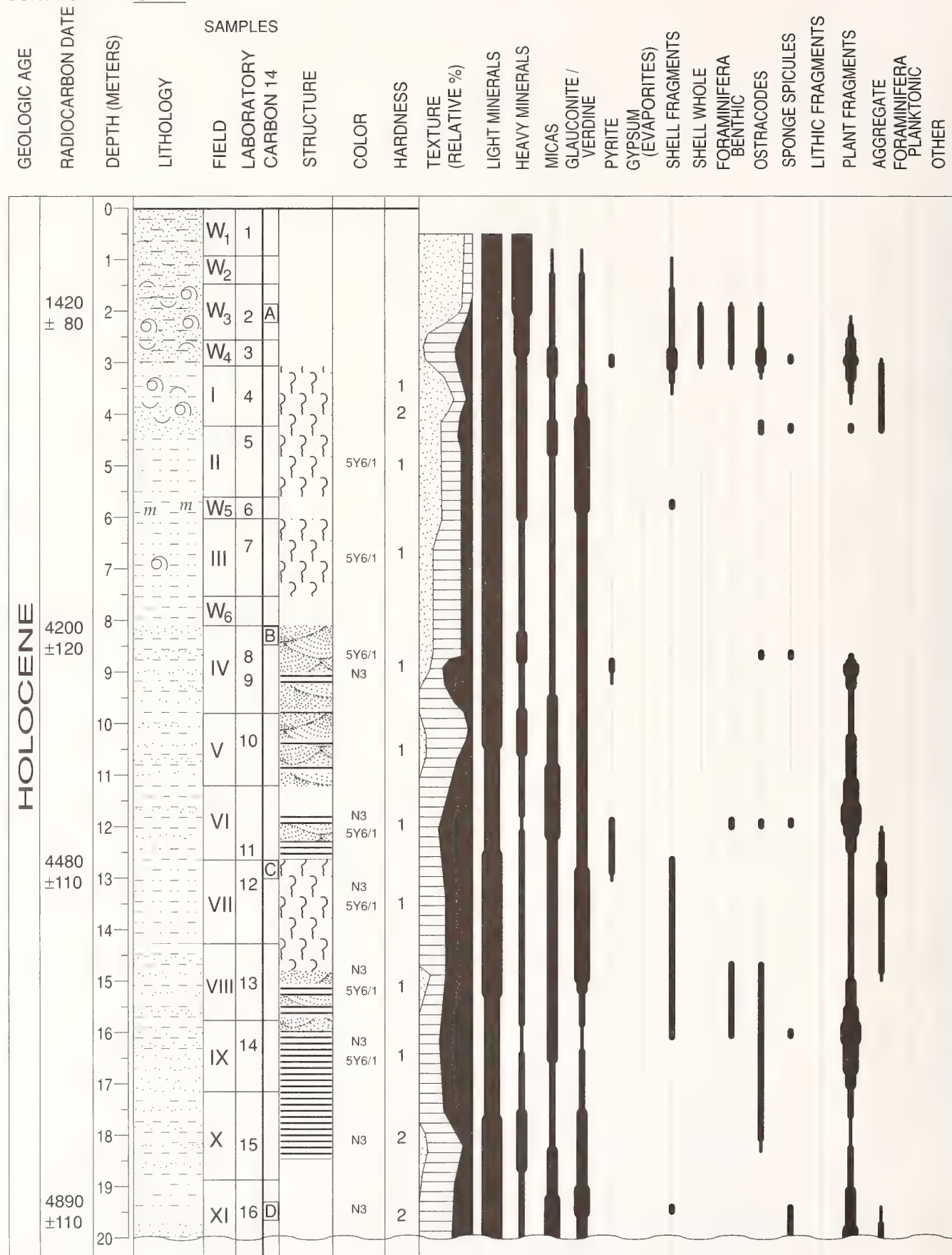


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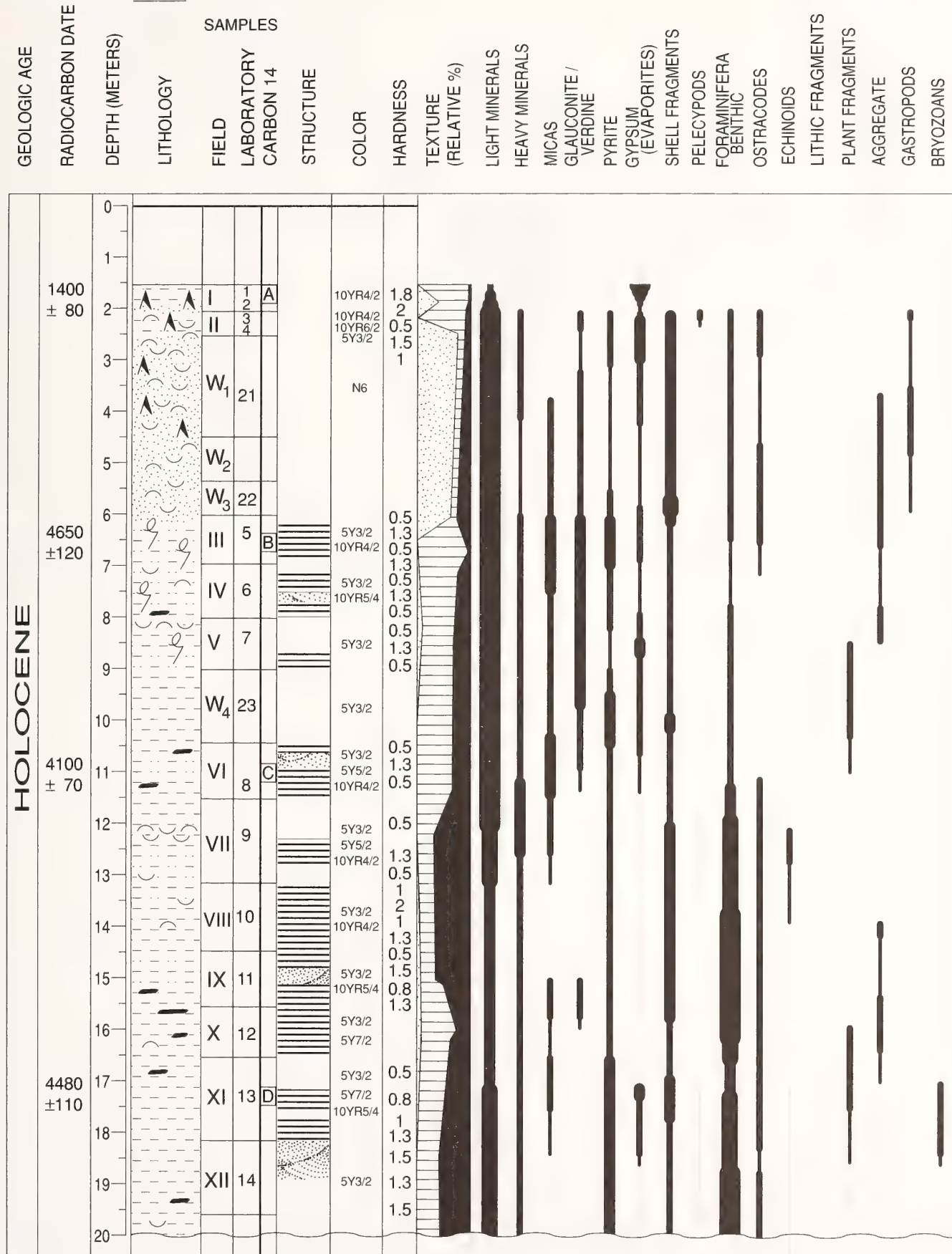


CORE NUMBER S17 III

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S18 I





CORE NUMBER S18 II

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S18 III

[illegible]



## CORE NUMBER S19

[illegible]















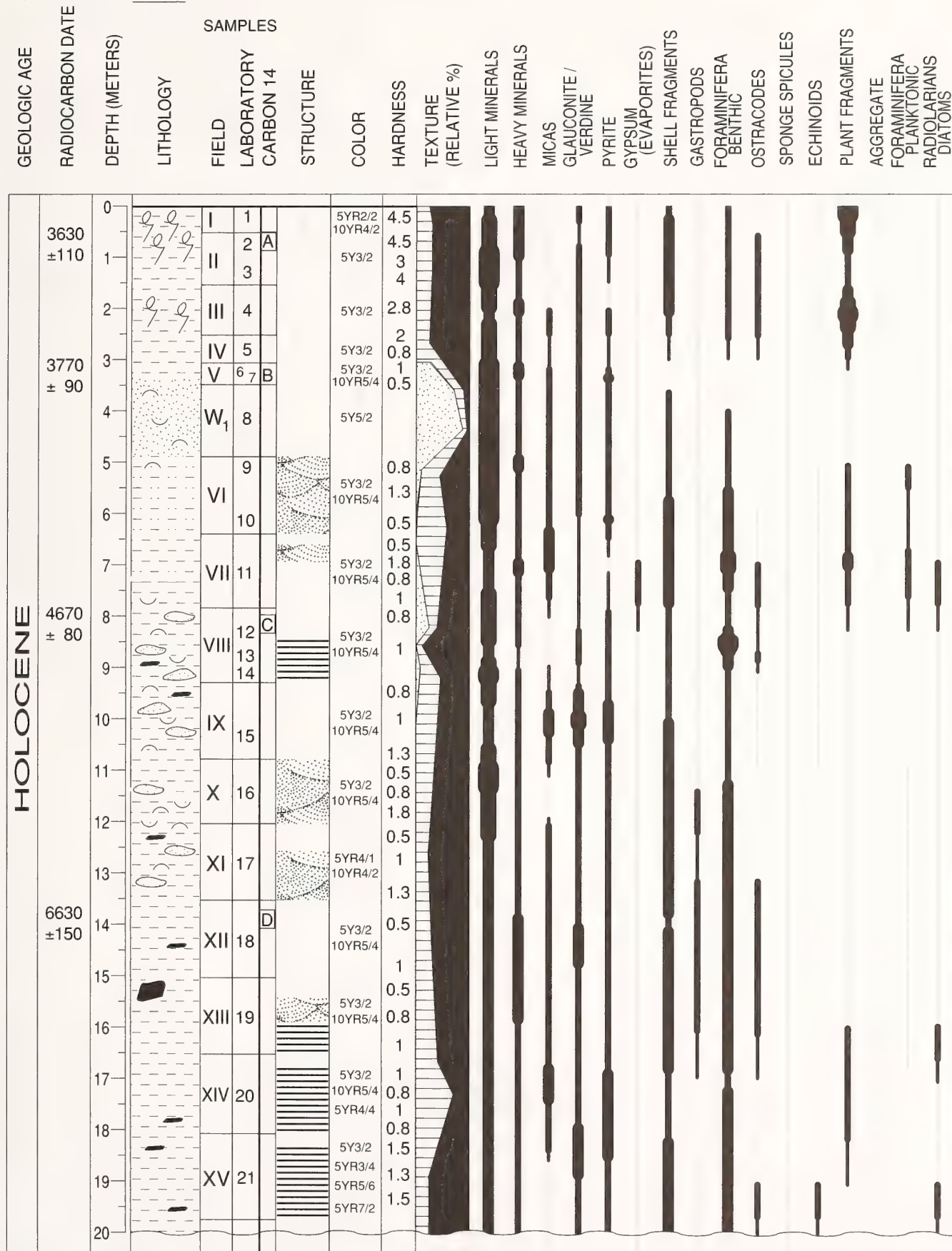


## CORE NUMBER S21 III

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S22 I







CORE NUMBER S23

[illegible]









## CORE NUMBER S27

[illegible]



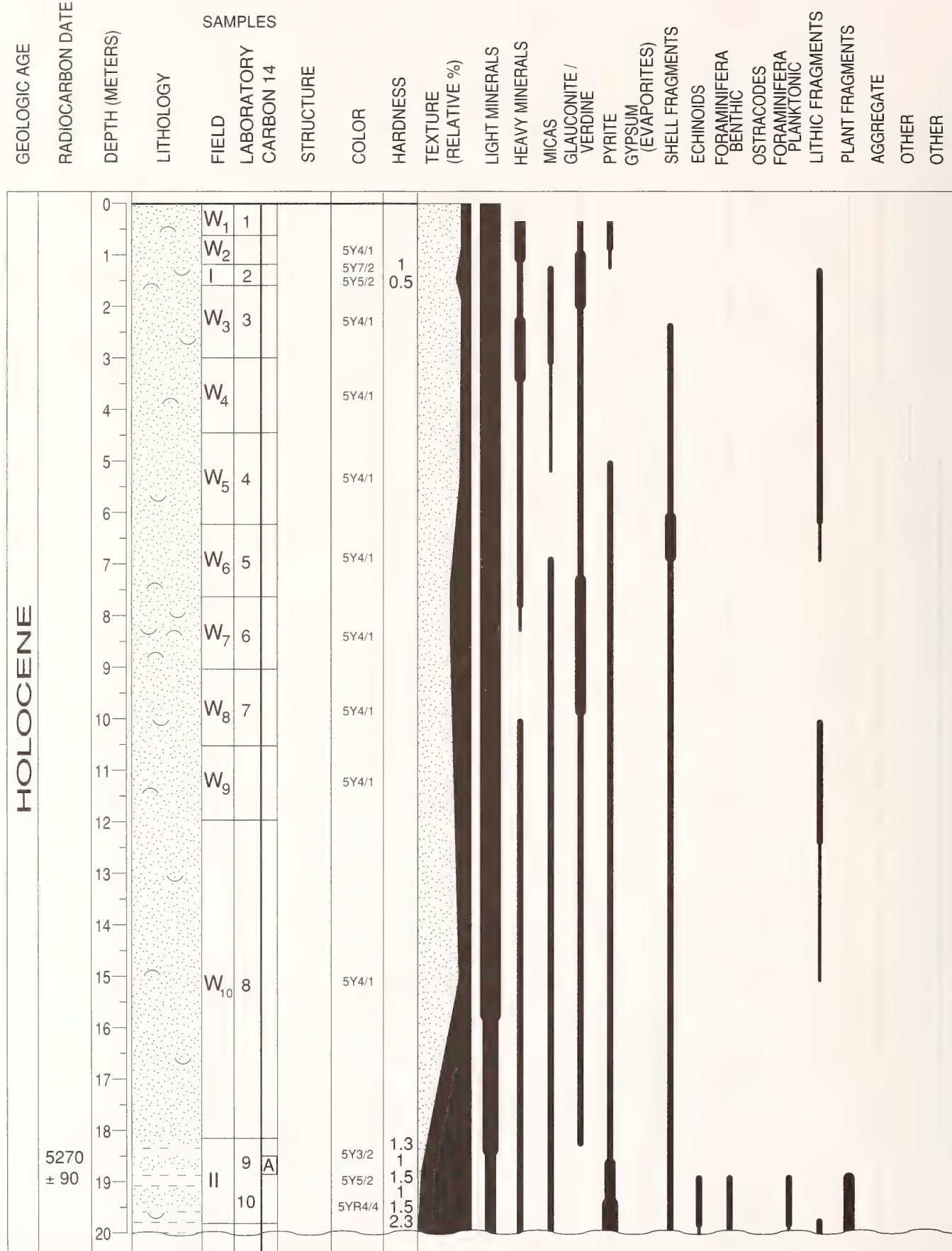










CORE NUMBER S30 I

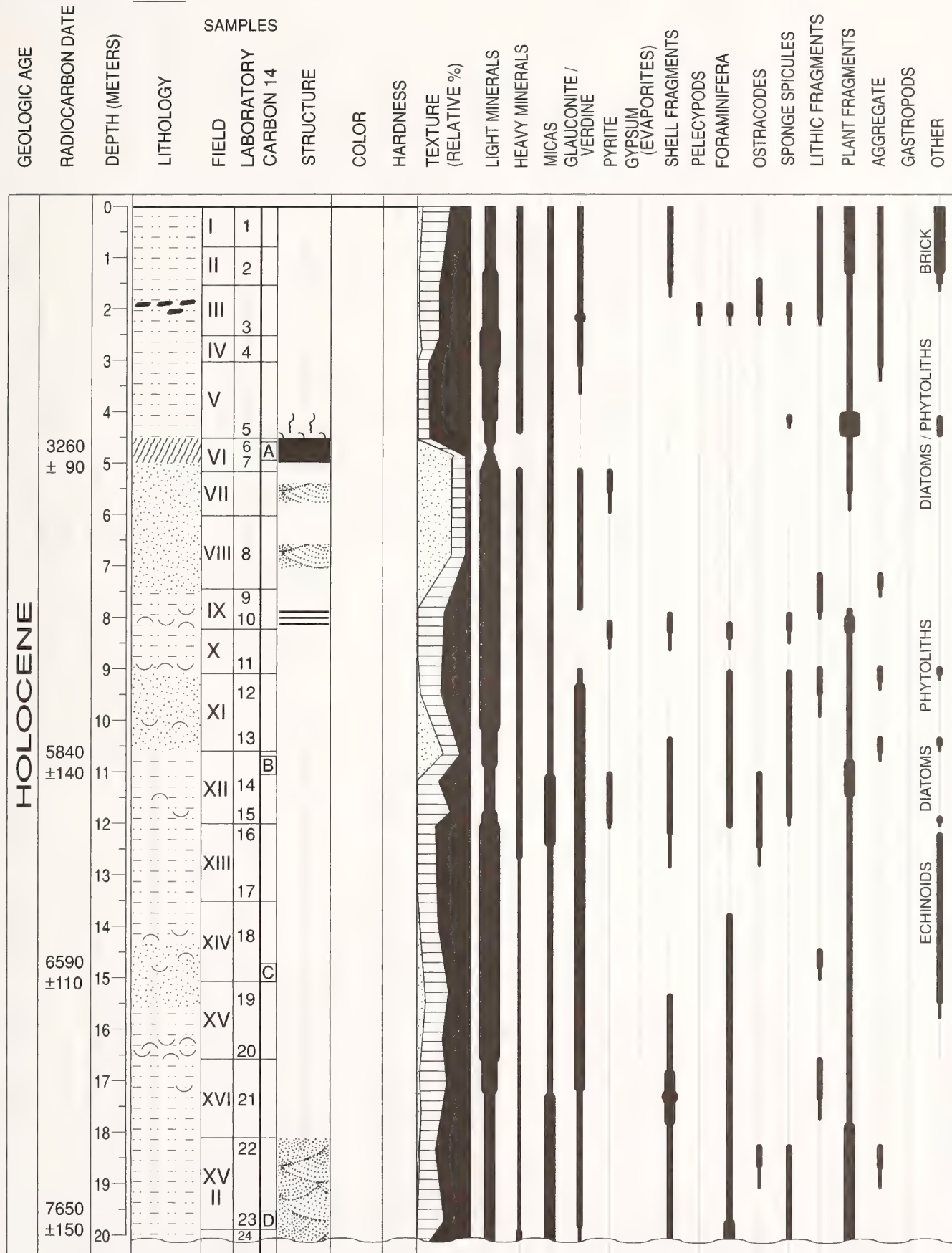
CORE NUMBER S30 II

[illegible]

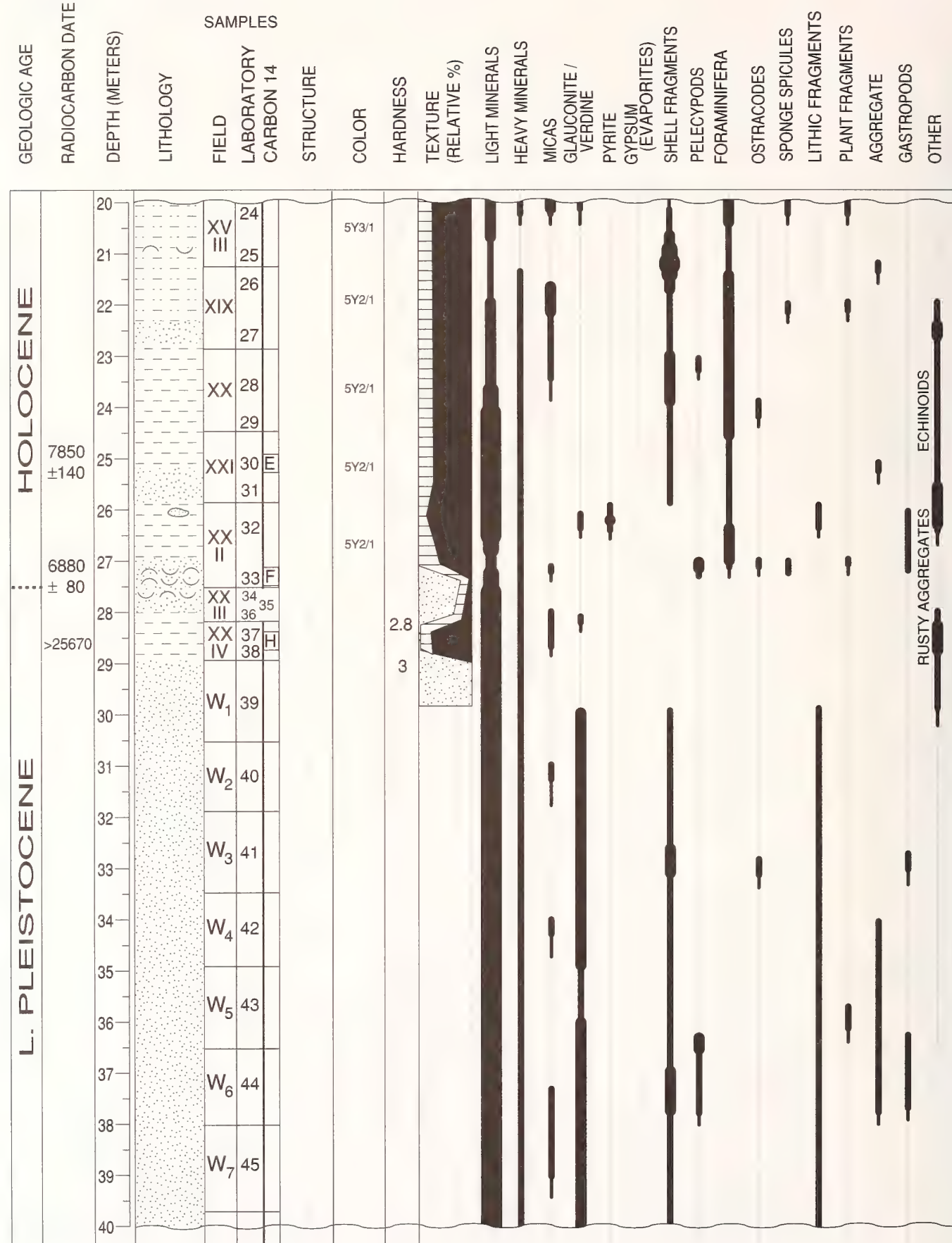




CORE NUMBER S31 I



## APPENDIX 1.—Continued.

CORE NUMBER S31 II

CORE NUMBER S31 III[illegible]







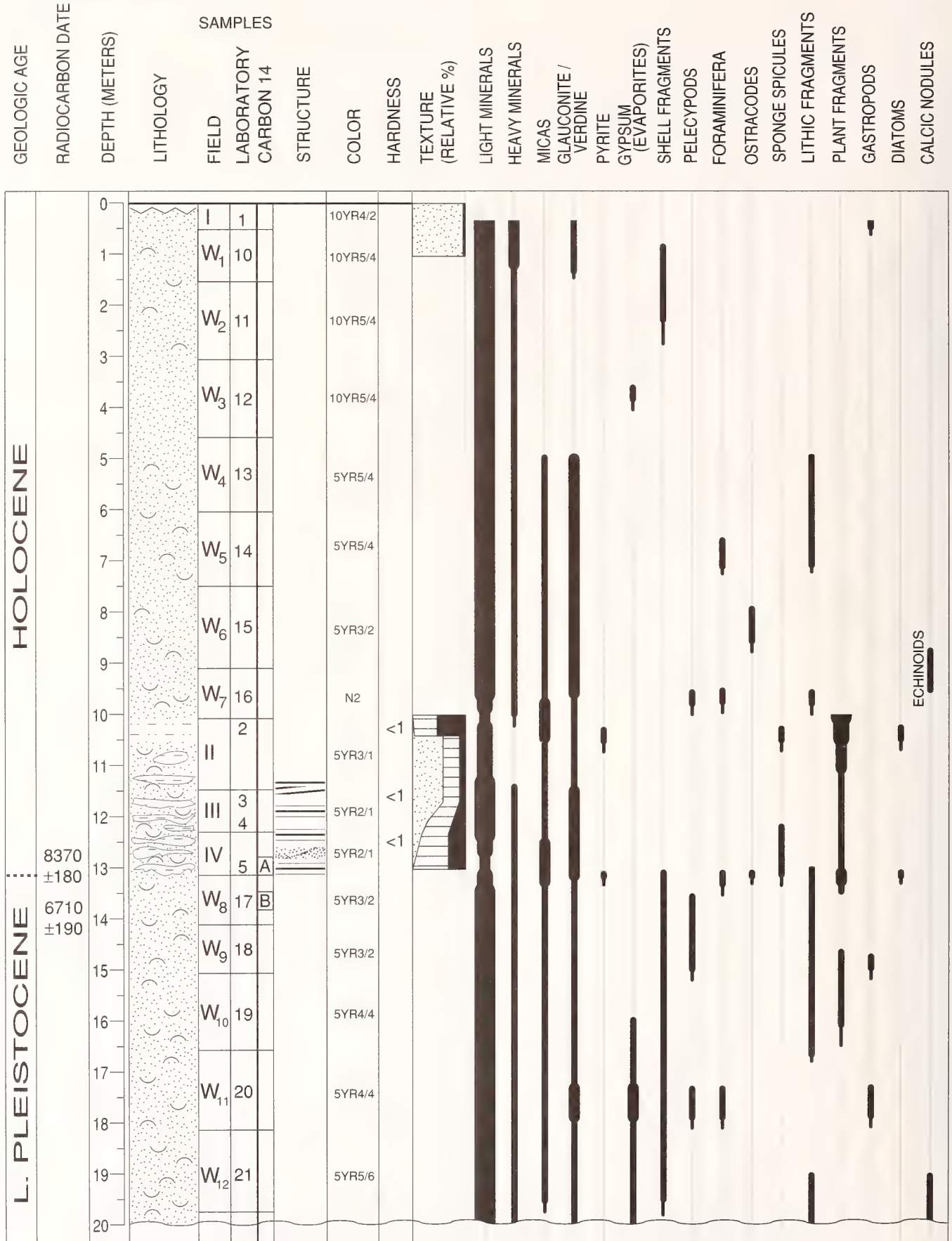




CORE NUMBER S33 II

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S34 I

## APPENDIX 1.—Continued.

CORE NUMBER **S34 II**

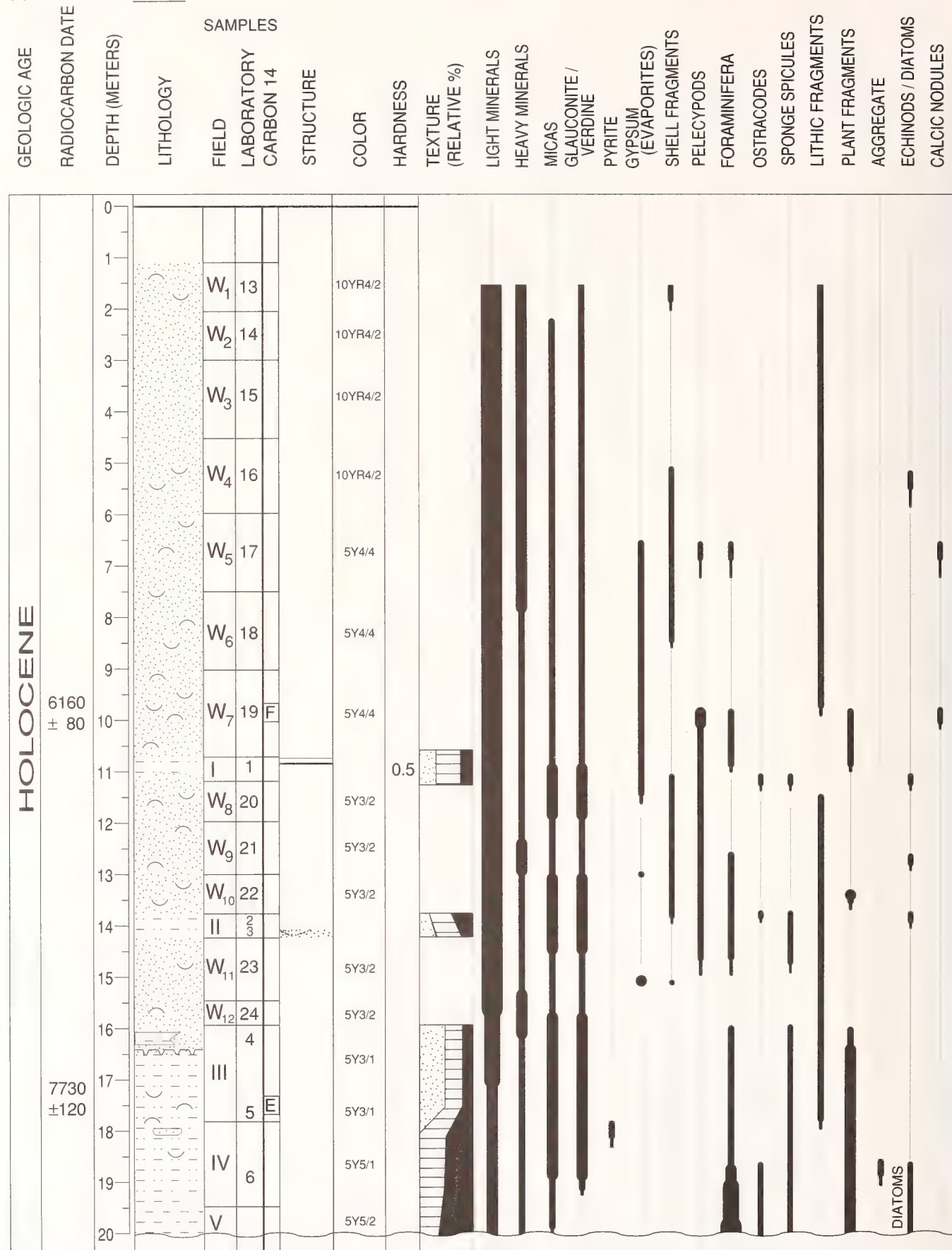
| GEOLOGIC AGE          | RADIOCARBON DATE | DEPTH (METERS) | LITHOLOGY | FIELD SAMPLES   | LABORATORY CARBON 14 | STRUCTURE | COLOR   | HARDNESS | TEXTURE (RELATIVE %) | LIGHT MINERALS | HEAVY MINERALS | MICAS | GLAUCONITE / VERDINE | PYRITE | GYP SUM (EVAPORITES) | SHELL FRAGMENTS | PELECYPODS | FORAMINIFERA | OSTRACODES | SPONGE SPICULES | LITHIC FRAGMENTS | PLANT FRAGMENTS | AGGREGATE | FE / HEMATITE CEMENTS | CALCIC NODULES |
|-----------------------|------------------|----------------|-----------|-----------------|----------------------|-----------|---------|----------|----------------------|----------------|----------------|-------|----------------------|--------|----------------------|-----------------|------------|--------------|------------|-----------------|------------------|-----------------|-----------|-----------------------|----------------|
| <b>L. PLEISTOCENE</b> | 19450<br>± 840   | 20             |           | W <sub>13</sub> | 22                   |           | 5Y5/6   |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 21             |           | W <sub>14</sub> | 23                   |           | 5Y5/6   |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 22             |           | V               | 6                    |           | 10YR4/2 | > 5      |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 23             |           | VI              |                      |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 24             |           | VII             | 7                    | C         | 10YR2/2 | > 5      |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 25             |           | VIII            | 8                    |           | 10YR4/2 | > 5      |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       | 21050<br>± 920   | 25             |           | IX              | 9                    | D         | 10YR4/2 | > 5      |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 26             |           | W <sub>15</sub> | 24                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 27             |           | W <sub>16</sub> | 25                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 28             |           | W <sub>17</sub> | 26                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 29             |           | W <sub>18</sub> | 27                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 30             |           | W <sub>19</sub> | 28                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 31             |           | W <sub>20</sub> | 29                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 32             |           | W <sub>21</sub> | 30                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 33             |           | W <sub>22</sub> | 31                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 34             |           | W <sub>23</sub> | 32                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 35             |           | W <sub>24</sub> | 33                   |           | 10YR4/2 |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 36             |           |                 |                      |           |         |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 37             |           |                 |                      |           |         |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 38             |           |                 |                      |           |         |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 39             |           |                 |                      |           |         |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |
|                       |                  | 40             |           |                 |                      |           |         |          |                      |                |                |       |                      |        |                      |                 |            |              |            |                 |                  |                 |           |                       |                |

BRYOZOANS



## APPENDIX 1.—Continued.

CORE NUMBER S35 I



## APPENDIX 1.—Continued.

CORE NUMBER S35 II

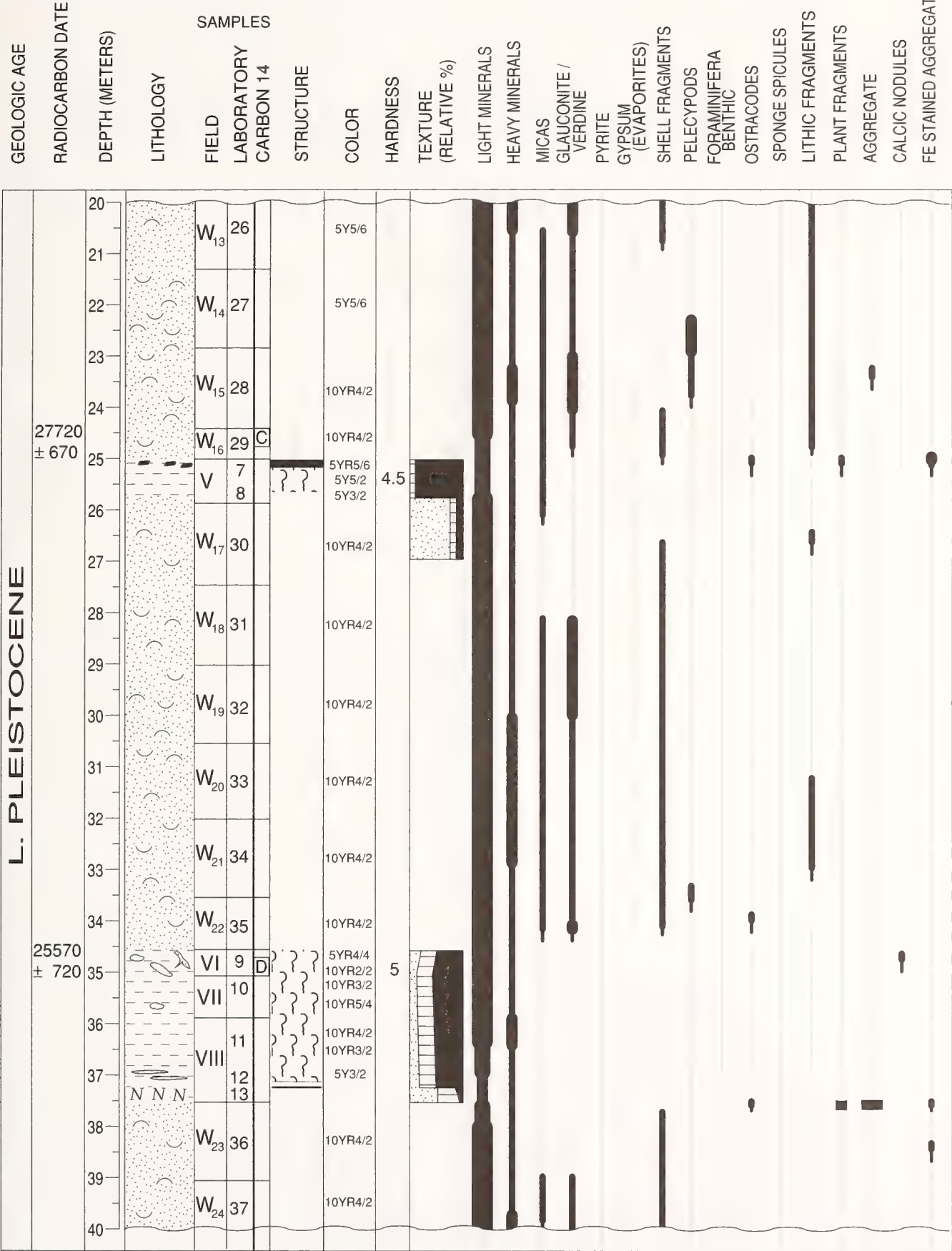
[illegible]





APPENDIX 1.—Continued.

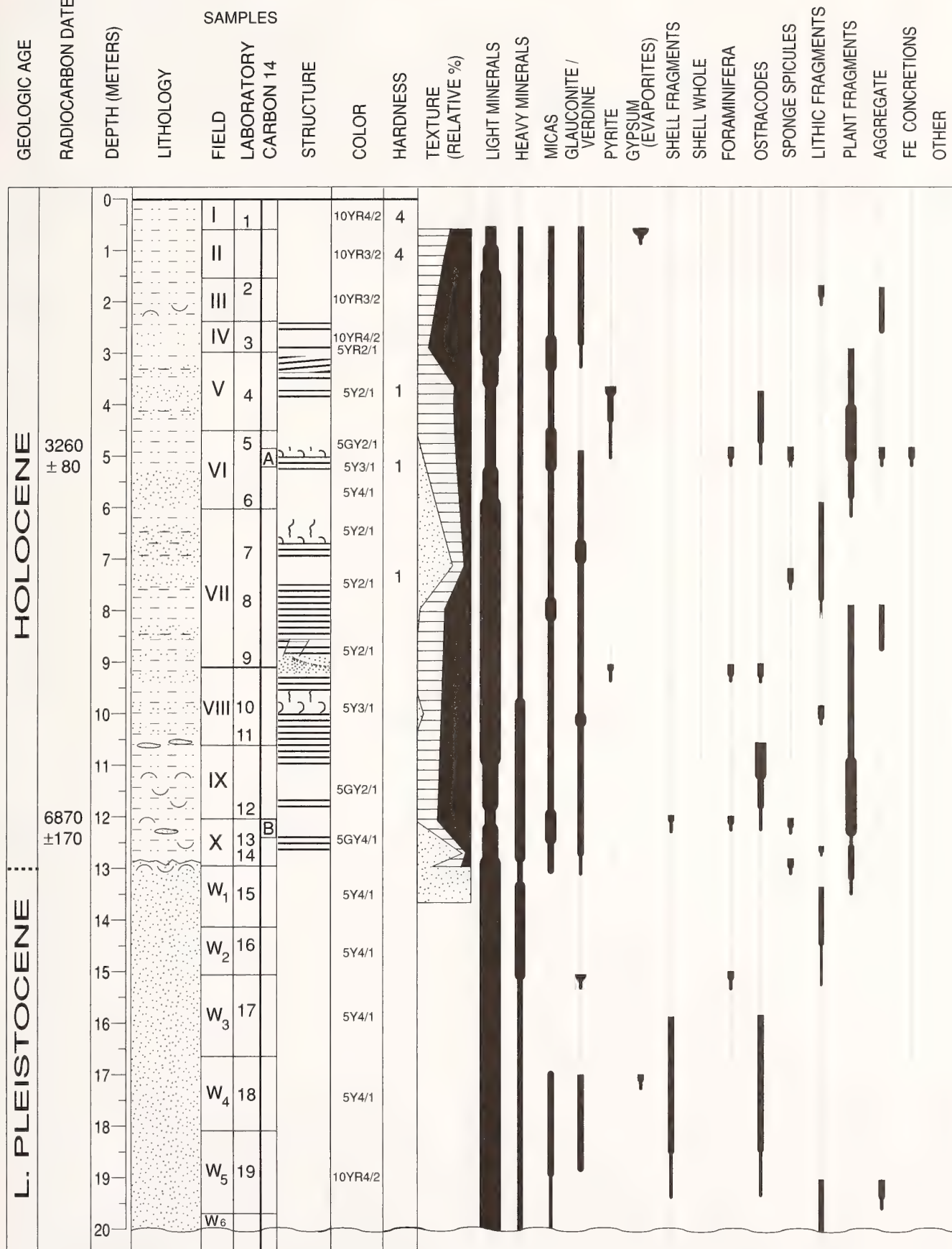
CORE NUMBER S36 II



CORE NUMBER S36 III

| CORE NUMBER           | S36 III        |
|-----------------------|----------------|
| GEOLOGIC AGE          | L. PLEISTOCENE |
| RADIOCARBON DATE      |                |
| DEPTH (METERS)        |                |
| LITHOLOGY             |                |
| FIELD                 |                |
| LABORATORY CARBON 14  |                |
| STRUCTURE             |                |
| COLOR                 |                |
| HARDNESS              |                |
| TEXTURE (RELATIVE %)  |                |
| LIGHT MINERALS        |                |
| HEAVY MINERALS        |                |
| MICAS                 |                |
| GLAUCONITE / VERDINE  |                |
| PYRITE                |                |
| GYPSUM (EVAPORITES)   |                |
| SHELL FRAGMENTS       |                |
| PELECYPods            |                |
| FORAMINIFERA BENTHIC  |                |
| OSTRACODES            |                |
| SPONGE SPICULES       |                |
| LITHIC FRAGMENTS      |                |
| PLANT FRAGMENTS       |                |
| AGGREGATE             |                |
| OTHER                 |                |
| FE STAINED AGGREGATES |                |

CORE NUMBER S37 I





CORE NUMBER S37 II

| L. PLEISTOCENE |                         |            |  |  |  | GEOLOGIC AGE     |
|----------------|-------------------------|------------|--|--|--|------------------|
|                |                         |            |  |  |  | RADIOCARBON DATE |
|                |                         |            |  |  |  | DEPTH (METERS)   |
|                | LITHOLOGY               | SAMPLES    |  |  |  |                  |
|                | FIELD                   | LABORATORY |  |  |  |                  |
|                | CARBON 14               |            |  |  |  |                  |
|                | STRUCTURE               |            |  |  |  |                  |
|                | COLOR                   | HARDNESS   |  |  |  |                  |
|                | TEXTURE<br>(RELATIVE %) |            |  |  |  |                  |
|                | LIGHT MINERALS          |            |  |  |  |                  |
|                | HEAVY MINERALS          |            |  |  |  |                  |
|                | MICAS                   |            |  |  |  |                  |
|                | GLAUCONITE /<br>VERDINE |            |  |  |  |                  |
|                | PYRITE                  |            |  |  |  |                  |
|                | GYPNUM<br>(EVAPORITES)  |            |  |  |  |                  |
|                | SHELL FRAGMENTS         |            |  |  |  |                  |
|                | SHELL WHOLE             |            |  |  |  |                  |
|                | FORAMINIFERA            |            |  |  |  |                  |
|                | OSTRACODES              |            |  |  |  |                  |
|                | SPONGE SPICULES         |            |  |  |  |                  |
|                | LITHIC FRAGMENTS        |            |  |  |  |                  |
|                | PLANT FRAGMENTS         |            |  |  |  |                  |
|                | AGGREGATE               |            |  |  |  |                  |
|                | FE CONCRETIONS          |            |  |  |  |                  |
|                | OTHER                   |            |  |  |  |                  |
| 20             |                         |            |  |  |  |                  |
| 21             |                         |            |  |  |  |                  |
| 22             |                         |            |  |  |  |                  |
| 23             |                         |            |  |  |  |                  |
| 24             |                         |            |  |  |  |                  |
| 25             |                         |            |  |  |  |                  |
| 26             |                         |            |  |  |  |                  |
| 27             |                         |            |  |  |  |                  |
| 28             |                         |            |  |  |  |                  |
| 29             |                         |            |  |  |  |                  |
| 30             |                         |            |  |  |  |                  |
| 31             |                         |            |  |  |  |                  |
| 32             |                         |            |  |  |  |                  |
| 33             |                         |            |  |  |  |                  |
| 34             |                         |            |  |  |  |                  |
| 35             |                         |            |  |  |  |                  |
| 36             |                         |            |  |  |  |                  |
| 37             |                         |            |  |  |  |                  |
| 38             |                         |            |  |  |  |                  |
| 39             |                         |            |  |  |  |                  |
| 40             |                         |            |  |  |  |                  |



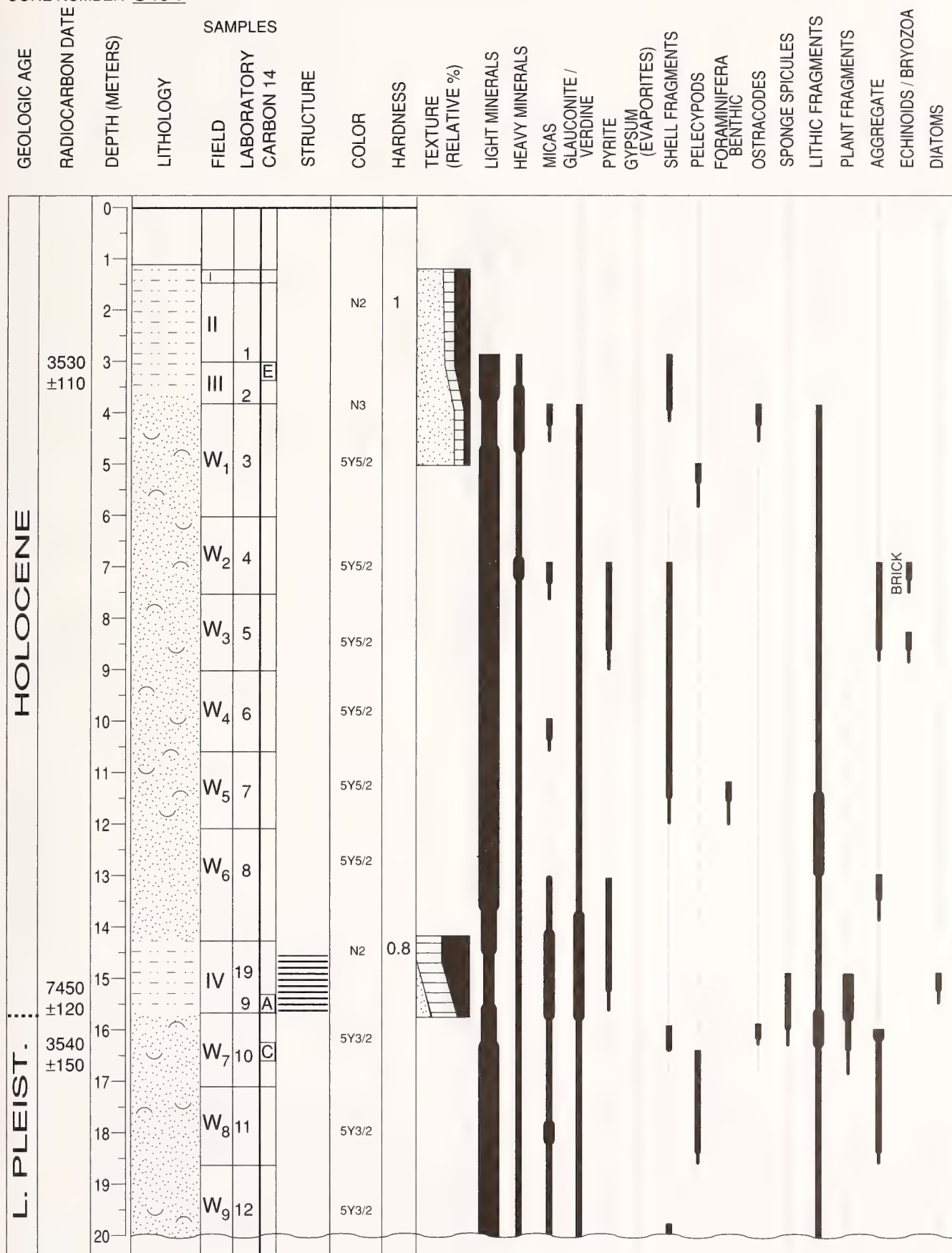








## APPENDIX 1.—Continued.

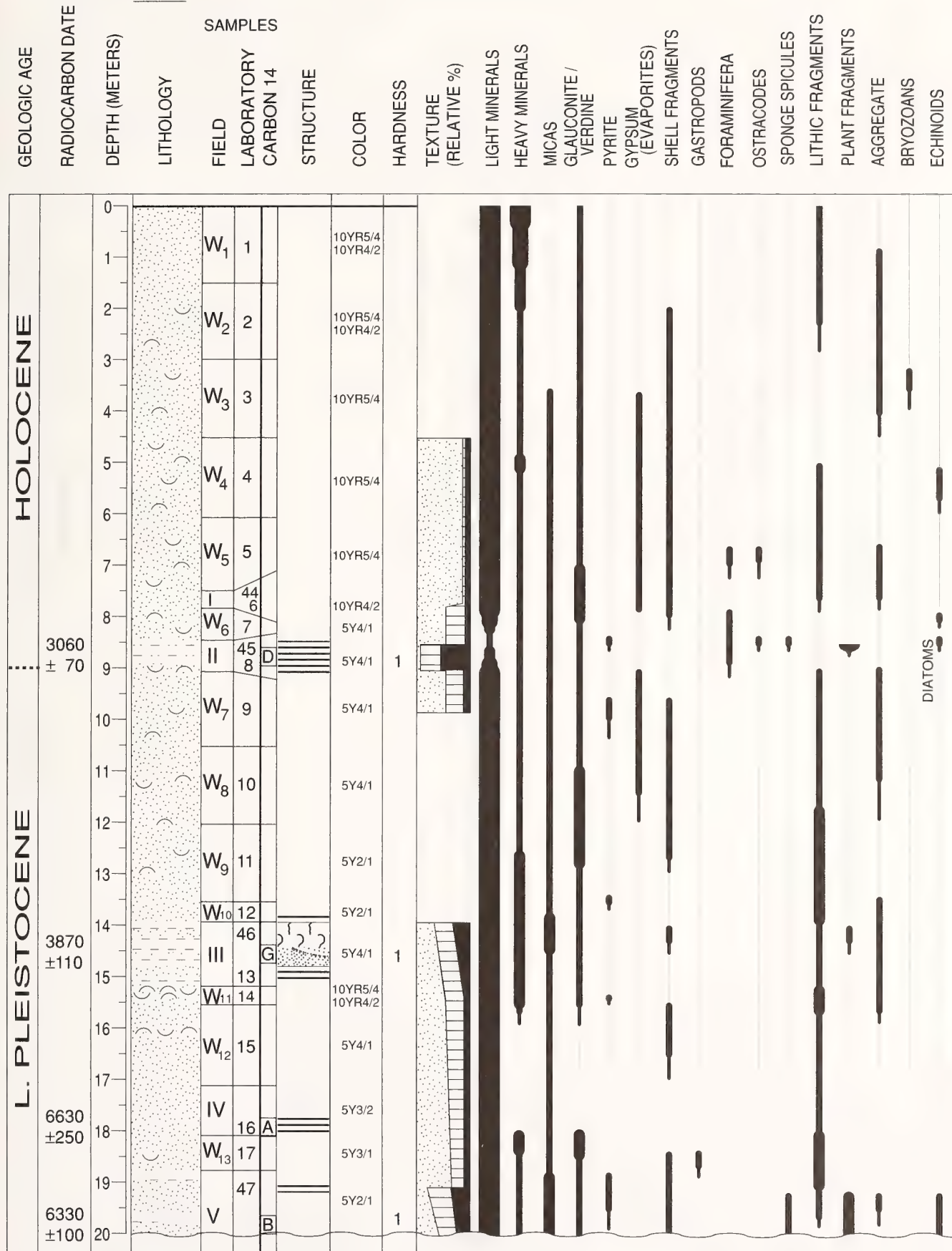
CORE NUMBER S40 I



CORE NUMBER S 40 II

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S41 I

CORE NUMBER S41 II

[illegible]



CORE NUMBER S41 III

[illegible]



CORE NUMBER S42 II

| GEOLOGIC AGE   |  | RADIOCARBON DATE |  | DEPTH (METERS) |  | LITHOLOGY          |  | SAMPLES  |  | COLOR         |  | HARDNESS |  | TEXTURE (RELATIVE %) |  | LIGHT MINERALS |  | HEAVY MINERALS |  | MICAS |  | GLAUCONITE / VERDINE |  | GYPSUM (EVAPORITES) |  | PELECYPODS |  | SHELL FRAGMENTS |  | GASTROPODS |  | FORAMINIFERA BENTHIC |  | OSTRACODES |  | SPONGE SPICULES |  | LITHIC FRAGMENTS |  | PLANT FRAGMENTS |  | AGGREGATE |  | BRYOZOANS |  | FE OXIDES |  |  |  |
|----------------|--|------------------|--|----------------|--|--------------------|--|----------|--|---------------|--|----------|--|----------------------|--|----------------|--|----------------|--|-------|--|----------------------|--|---------------------|--|------------|--|-----------------|--|------------|--|----------------------|--|------------|--|-----------------|--|------------------|--|-----------------|--|-----------|--|-----------|--|-----------|--|--|--|
| L. PLEISTOCENE |  | 7410 ±100        |  | 20             |  | W <sub>14</sub> 14 |  | I 35 15  |  | 5Y4/1         |  | 1.2      |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  | 8290 ±120        |  | 21             |  | W <sub>15</sub> 16 |  | II 35 17 |  | 5Y4/1         |  | 1.4      |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  | 6730 ±150        |  | 22             |  | W <sub>16</sub> 18 |  | A 35 17  |  | 5Y3/1         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 23             |  | W <sub>17</sub> 19 |  | B 35 17  |  | 5Y3/2         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 24             |  | W <sub>18</sub> 20 |  |          |  | 5Y3/2         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  | 7860 ± 90        |  | 25             |  | W <sub>19</sub> 21 |  | C 35 17  |  | 5Y4/1         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 26             |  | W <sub>20</sub> 22 |  |          |  | 5Y6/1 10YR4/2 |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 27             |  | W <sub>21</sub> 23 |  |          |  | 5Y4/1         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 28             |  | W <sub>22</sub> 24 |  |          |  | 5Y5/1         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 29             |  | W <sub>23</sub> 25 |  |          |  | 5Y5/1         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 30             |  | W <sub>24</sub> 26 |  |          |  | 5Y5/1         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 31             |  | W <sub>25</sub> 27 |  |          |  | 5Y5/2         |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 32             |  | W <sub>26</sub> 28 |  |          |  | 5Y5/2 5YR3/4  |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 33             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 34             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 35             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 36             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 37             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 38             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 39             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |
|                |  |                  |  | 40             |  |                    |  |          |  |               |  |          |  |                      |  |                |  |                |  |       |  |                      |  |                     |  |            |  |                 |  |            |  |                      |  |            |  |                 |  |                  |  |                 |  |           |  |           |  |           |  |  |  |



CORE NUMBER S42 III

[illegible]







CORE NUMBER S43 III

[illegible]

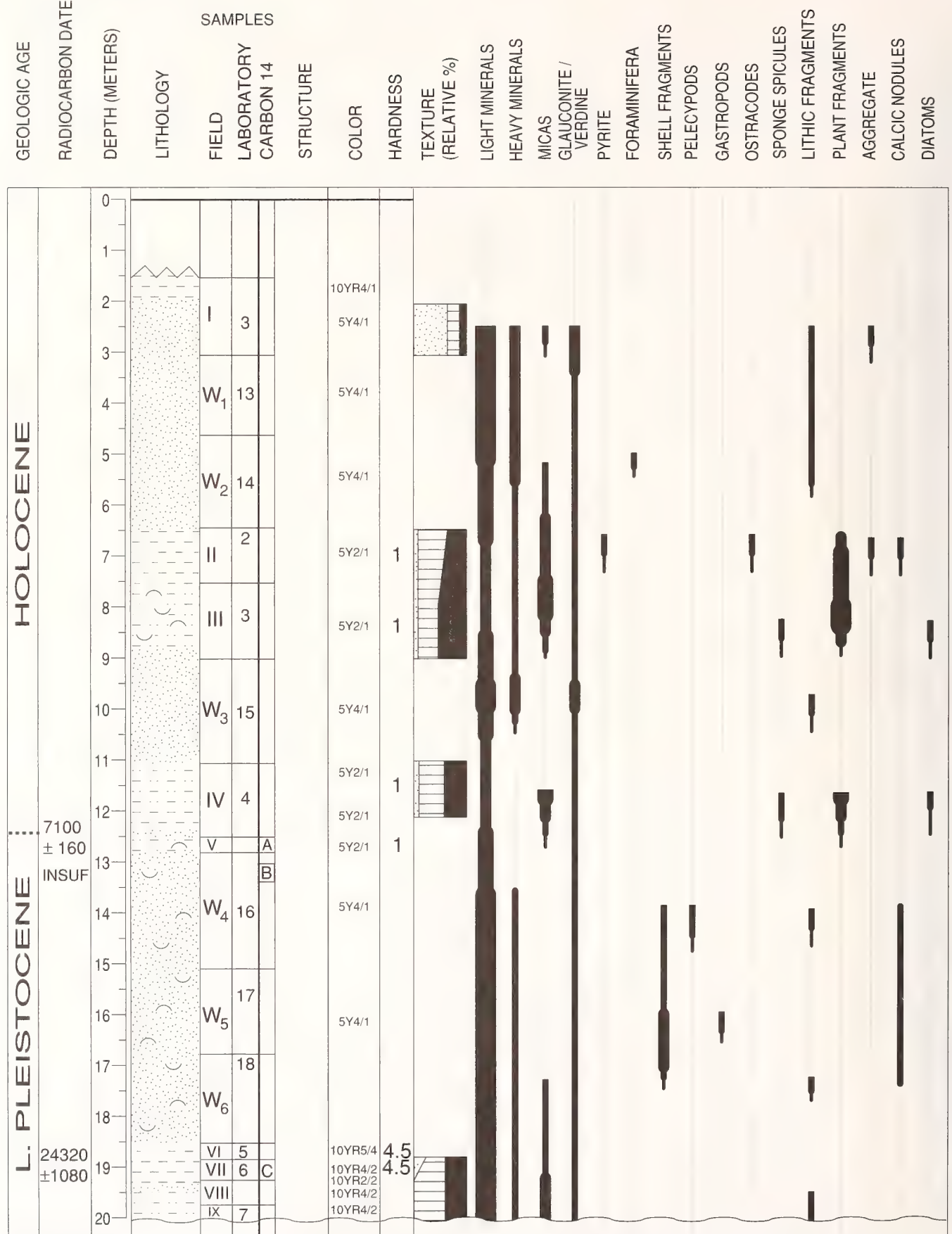


CORE NUMBER S44 II

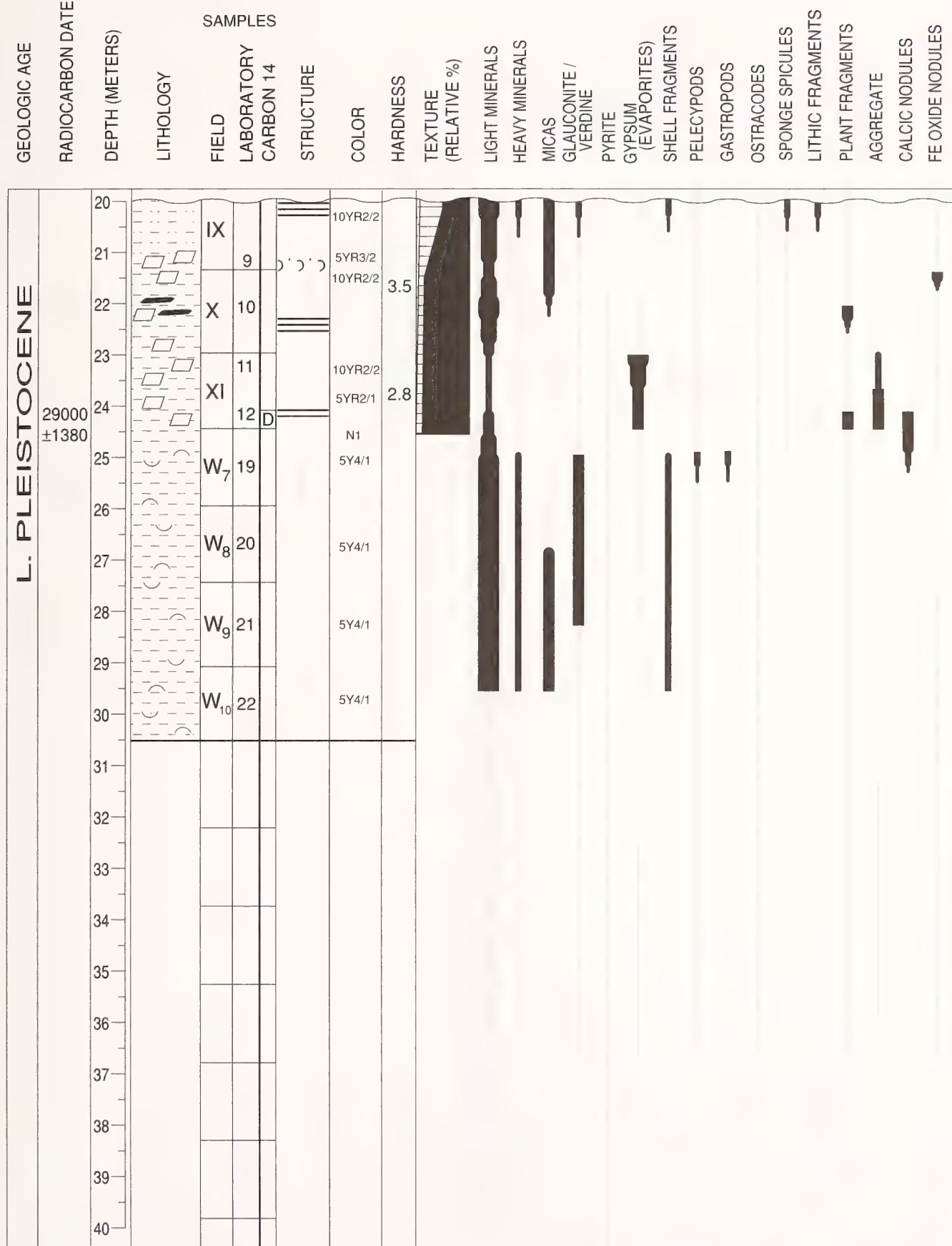
[illegible]



## APPENDIX 1.—Continued.

CORE NUMBER S45 I

CORE NUMBER S45 II







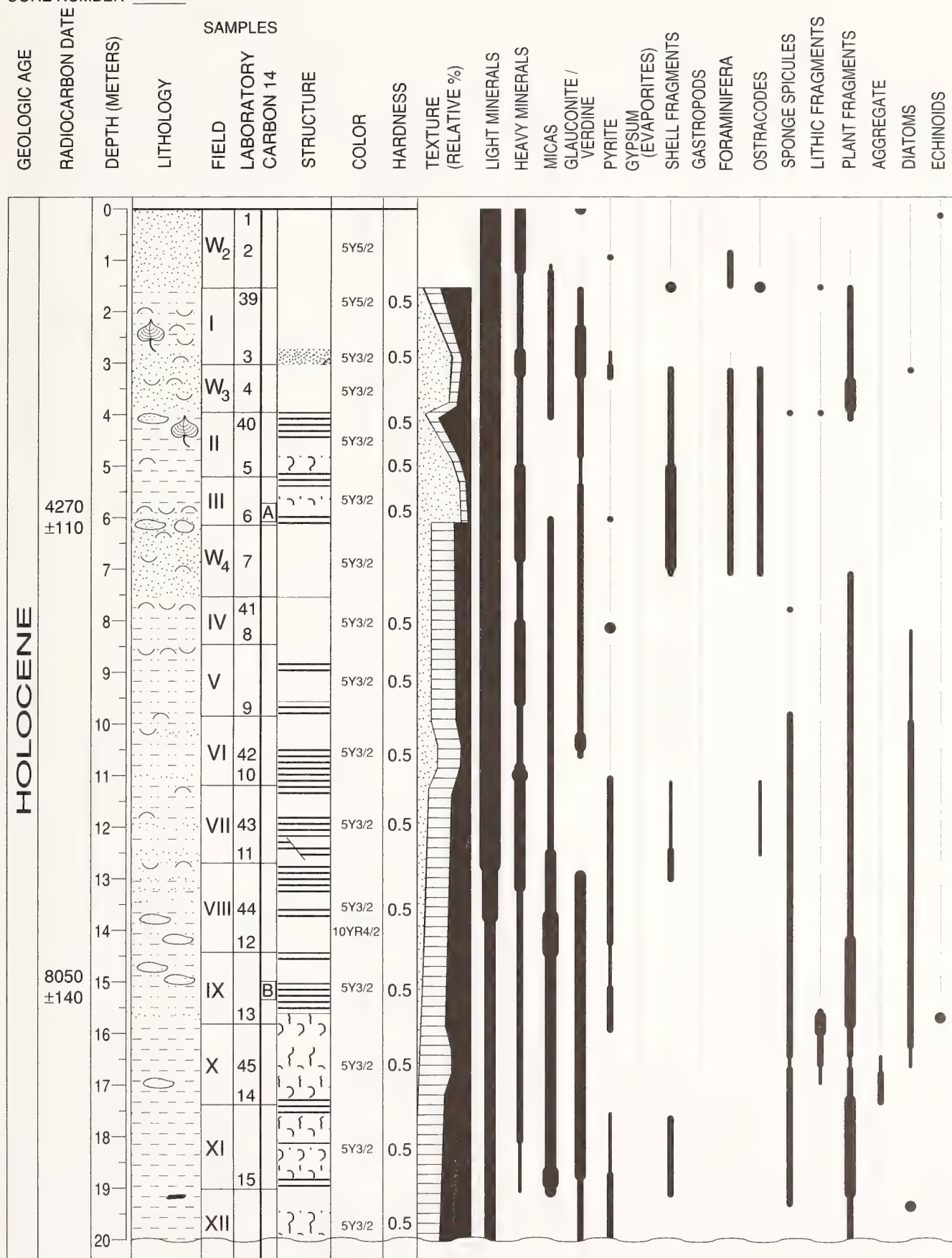
CORE NUMBER S46 II

[illegible]

CORE NUMBER S46 III[illegible]

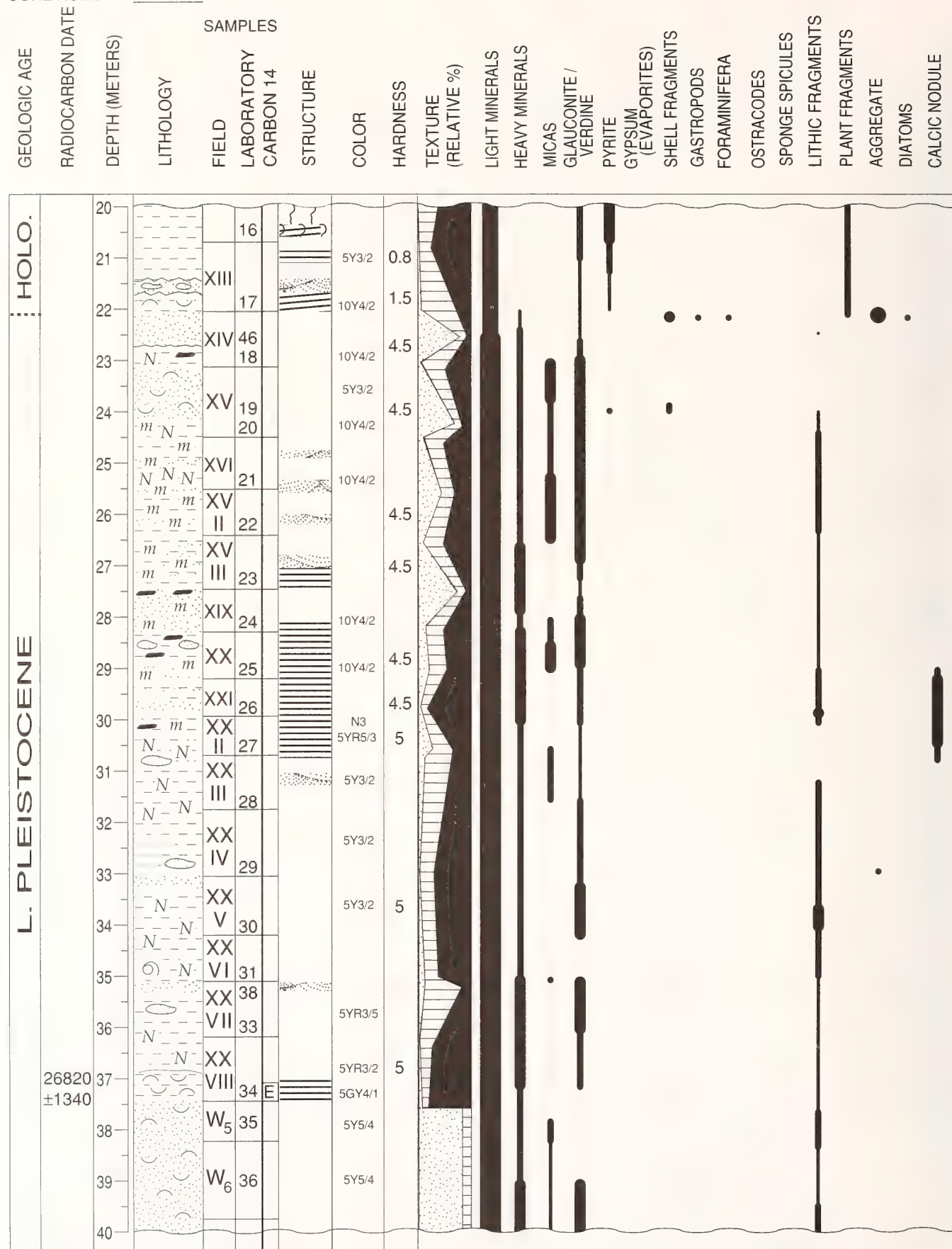
## APPENDIX 1.—Continued.

CORE NUMBER S471





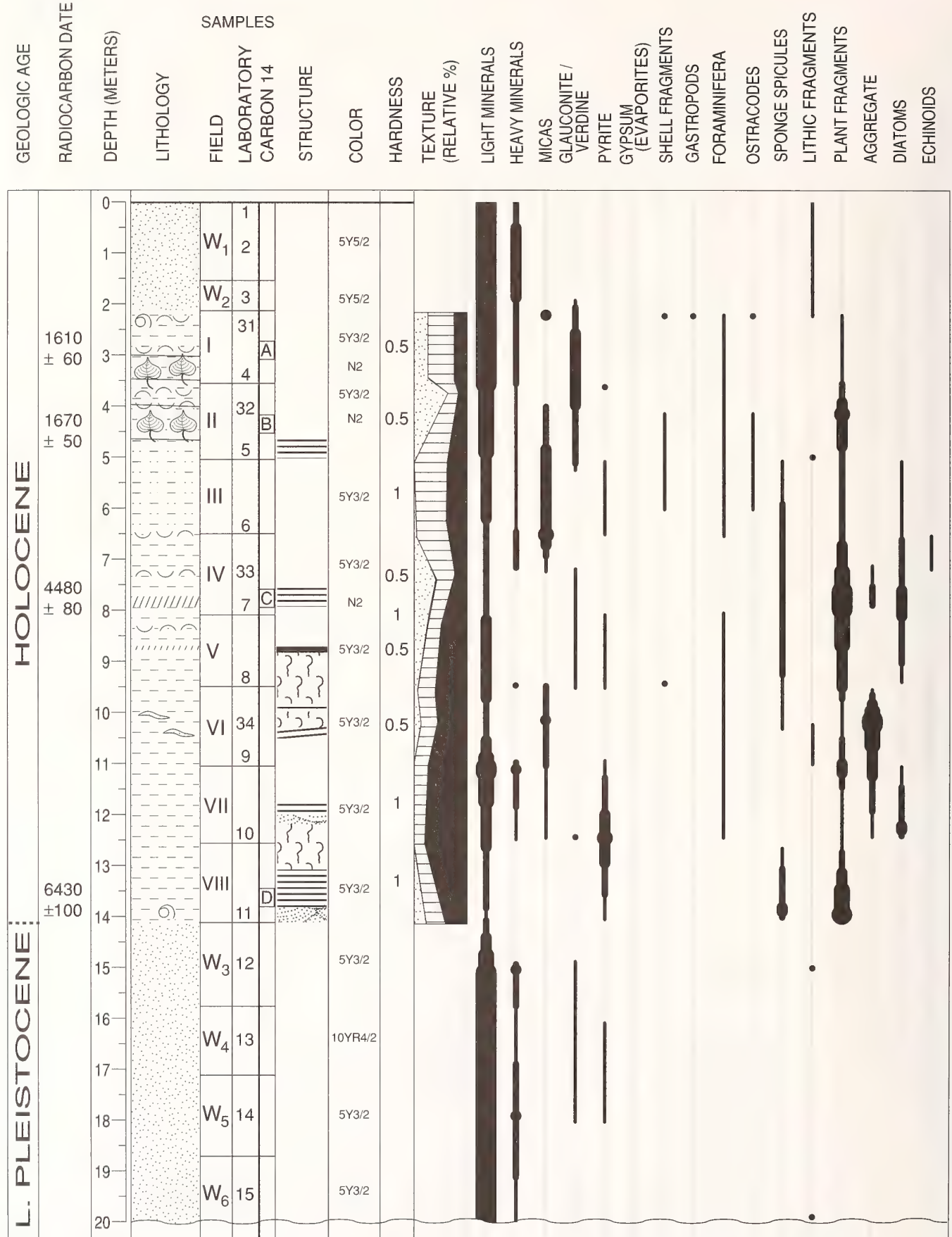
## APPENDIX 1.—Continued.

CORE NUMBER S47 II

## CORE NUMBER S47 III

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S48 I



CORE NUMBER S48 II

[illegible]

CORE NUMBER S48 III[illegible]







## APPENDIX 1.—Continued.

CORE NUMBER S49 III

[illegible]

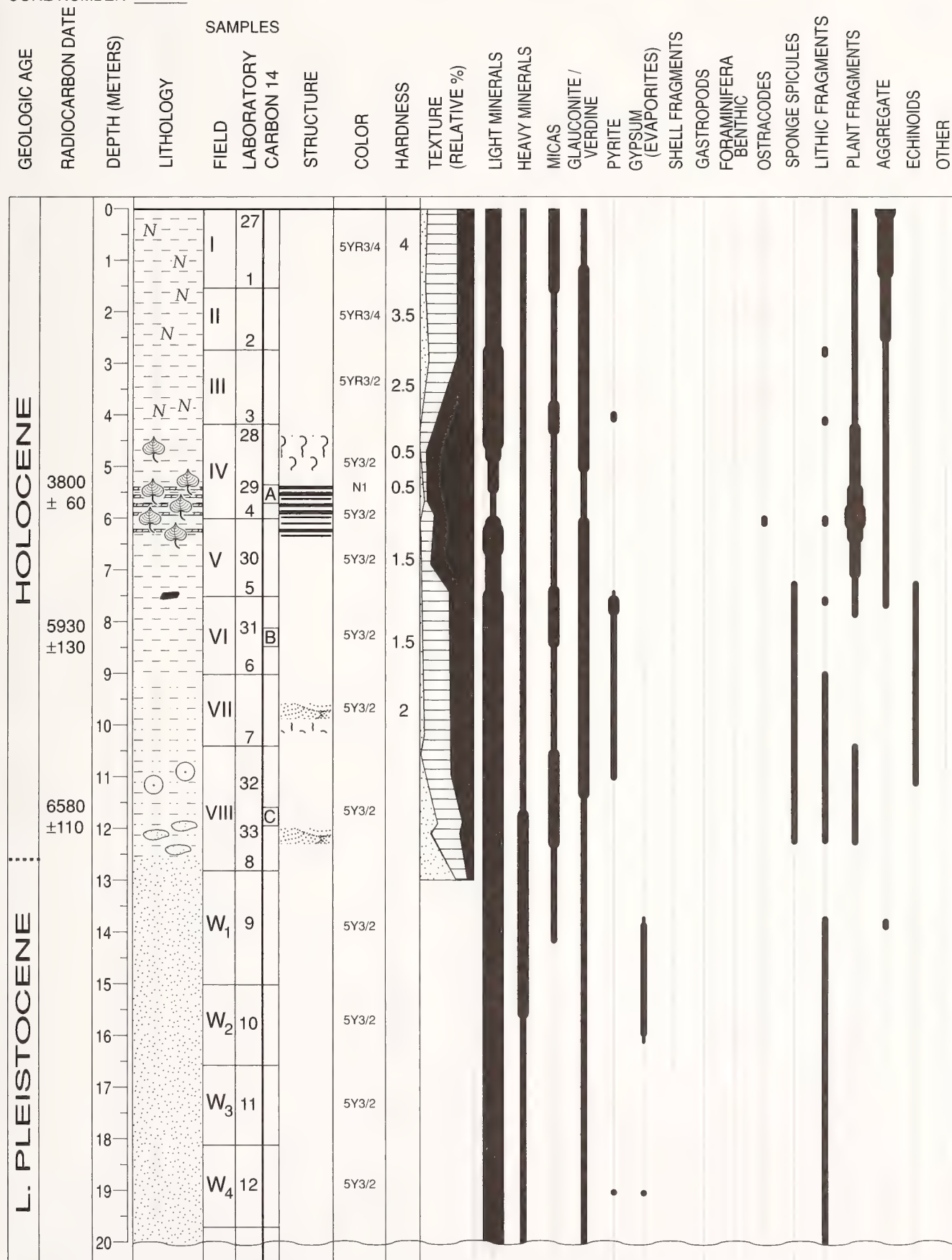






CORE NUMBER S50 III[illegible]

CORE NUMBER S51 I







## APPENDIX 1.—Continued.

[illegible]



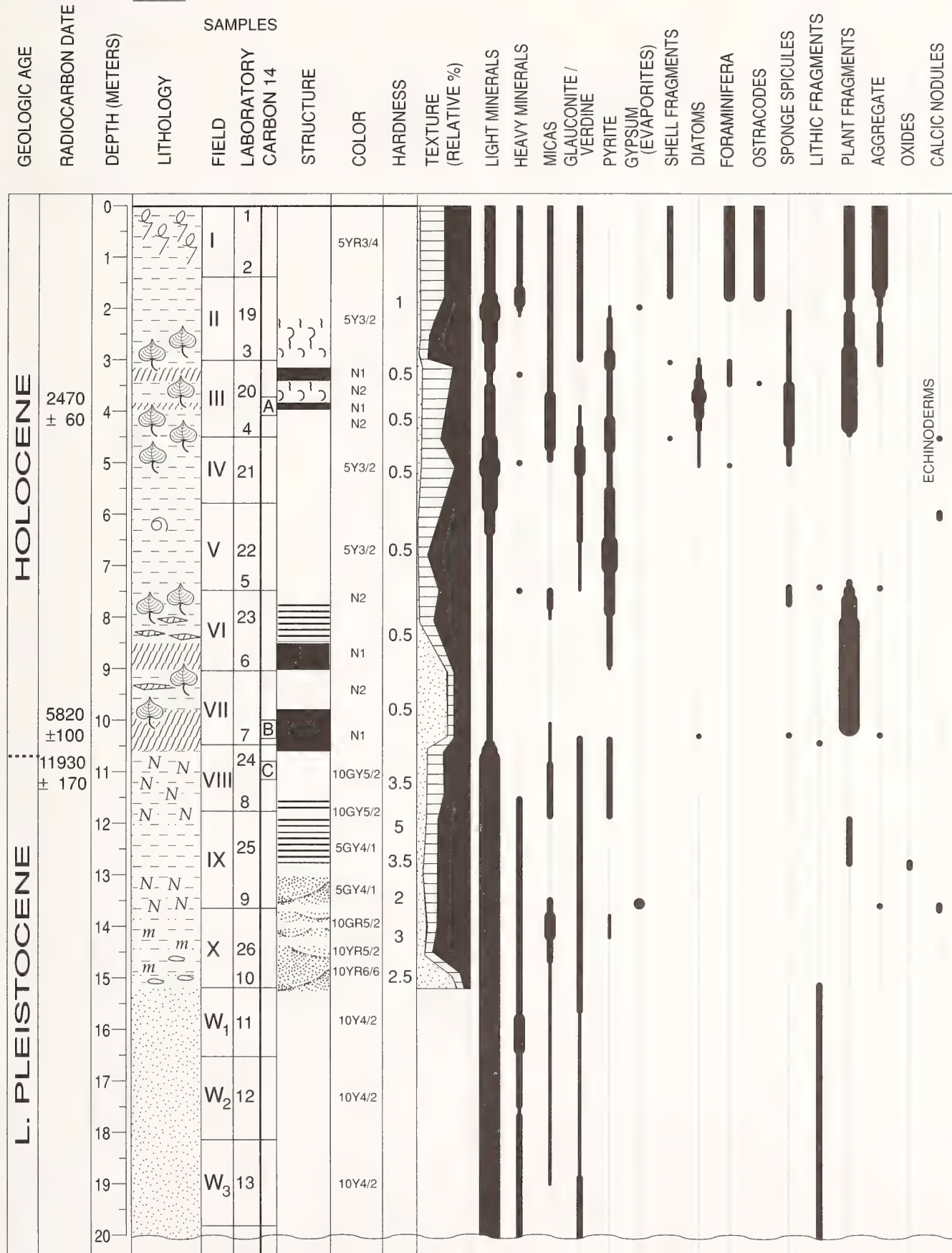


CORE NUMBER S52 II

[illegible]

CORE NUMBER S52 III

| L. PLEISTOCENE       |  |  |  | GEOLOGIC AGE |
|----------------------|--|--|--|--------------|
| RADIOCARBON DATE     |  |  |  |              |
| DEPTH (METERS)       |  |  |  |              |
| LITHOLOGY            |  |  |  |              |
| FIELD                |  |  |  | SAMPLES      |
| LABORATORY           |  |  |  |              |
| CARBON 14            |  |  |  |              |
| STRUCTURE            |  |  |  |              |
| COLOR                |  |  |  |              |
| HARDNESS             |  |  |  |              |
| TEXTURE (RELATIVE %) |  |  |  |              |
| LIGHT MINERALS       |  |  |  |              |
| HEAVY MINERALS       |  |  |  |              |
| MICAS                |  |  |  |              |
| GLAUCONITE / VERDINE |  |  |  |              |
| PYRITE               |  |  |  |              |
| ECHINOIDS            |  |  |  |              |
| SHELL FRAGMENTS      |  |  |  |              |
| DIATOMS              |  |  |  |              |
| FORAMINIFERA         |  |  |  |              |
| OSTRACODES           |  |  |  |              |
| SPONGE SPICULES      |  |  |  |              |
| LITHIC FRAGMENTS     |  |  |  |              |
| PLANT FRAGMENTS      |  |  |  |              |
| AGGREGATE            |  |  |  |              |
| NODULES              |  |  |  |              |
| FE OXIDES            |  |  |  |              |
| 40                   |  |  |  |              |
| 41                   |  |  |  |              |
| 42                   |  |  |  |              |
| 43                   |  |  |  |              |
| 44                   |  |  |  |              |
| 45                   |  |  |  |              |
| 46                   |  |  |  |              |
| 47                   |  |  |  |              |
| 48                   |  |  |  |              |
| 49                   |  |  |  |              |
| 50                   |  |  |  |              |
| 51                   |  |  |  |              |
| 52                   |  |  |  |              |
| 53                   |  |  |  |              |
| 54                   |  |  |  |              |
| 55                   |  |  |  |              |
| 56                   |  |  |  |              |
| 57                   |  |  |  |              |
| 58                   |  |  |  |              |
| 59                   |  |  |  |              |
| 60                   |  |  |  |              |

CORE NUMBER S53 I



CORE NUMBER S53 II

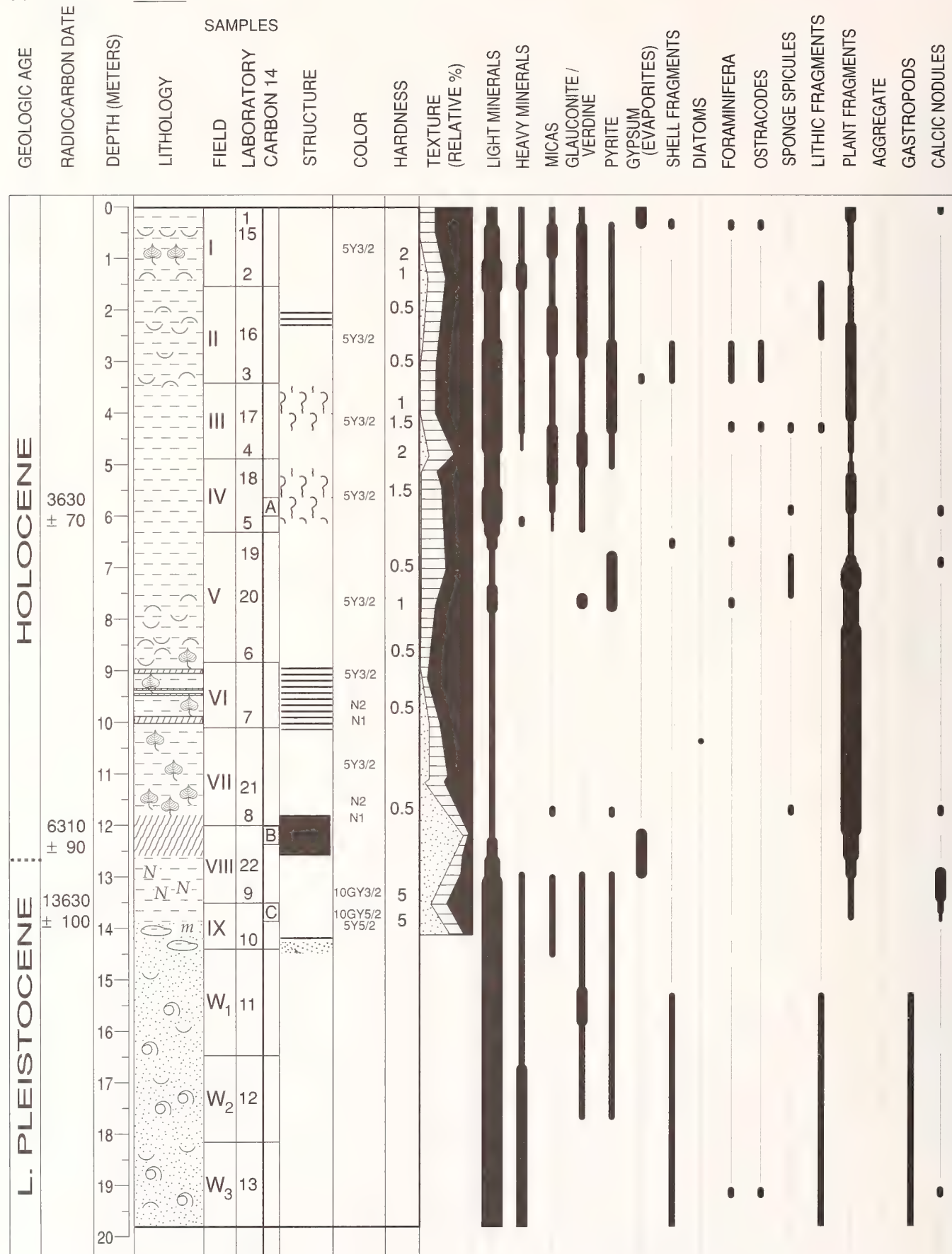
[illegible]









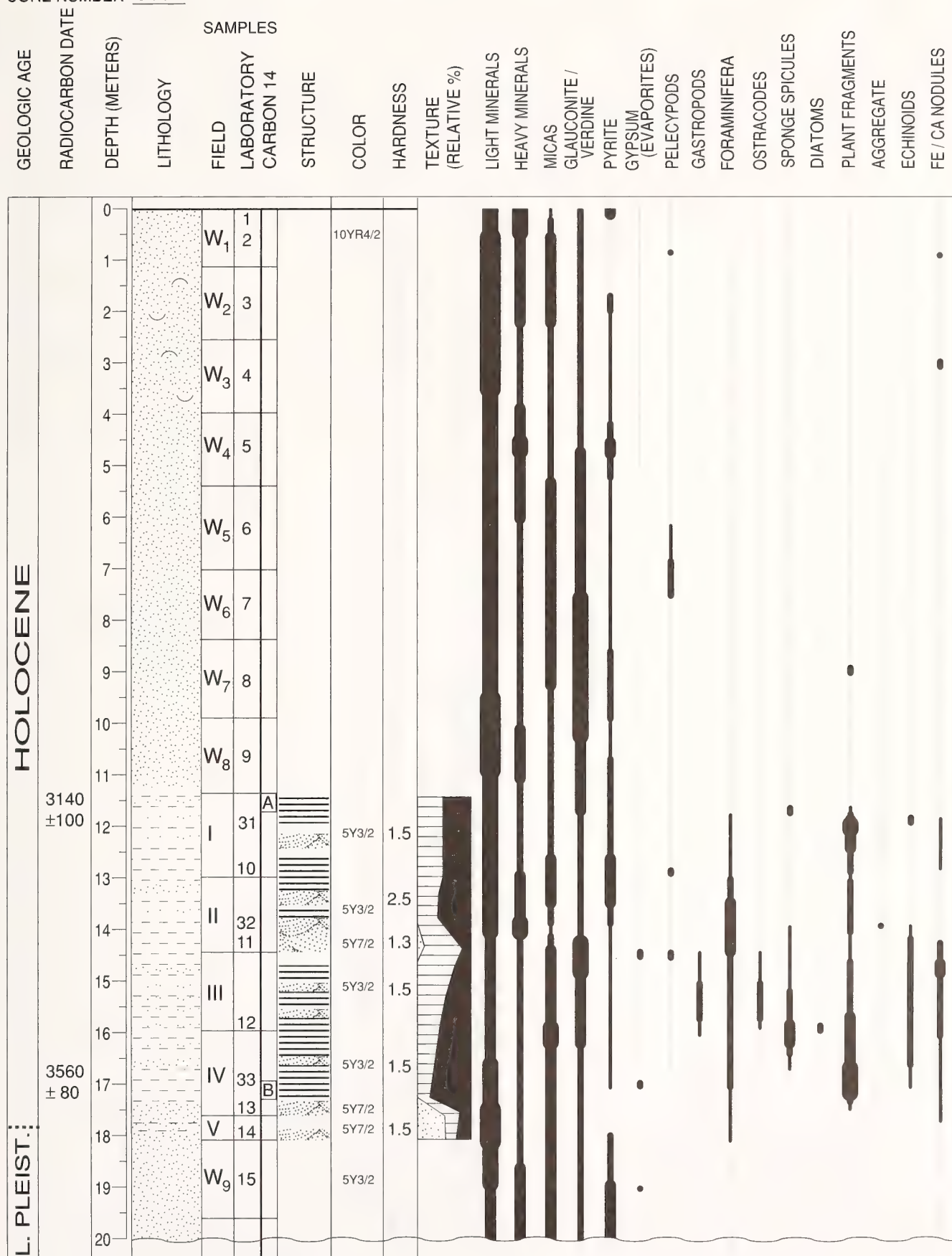
CORE NUMBER S57



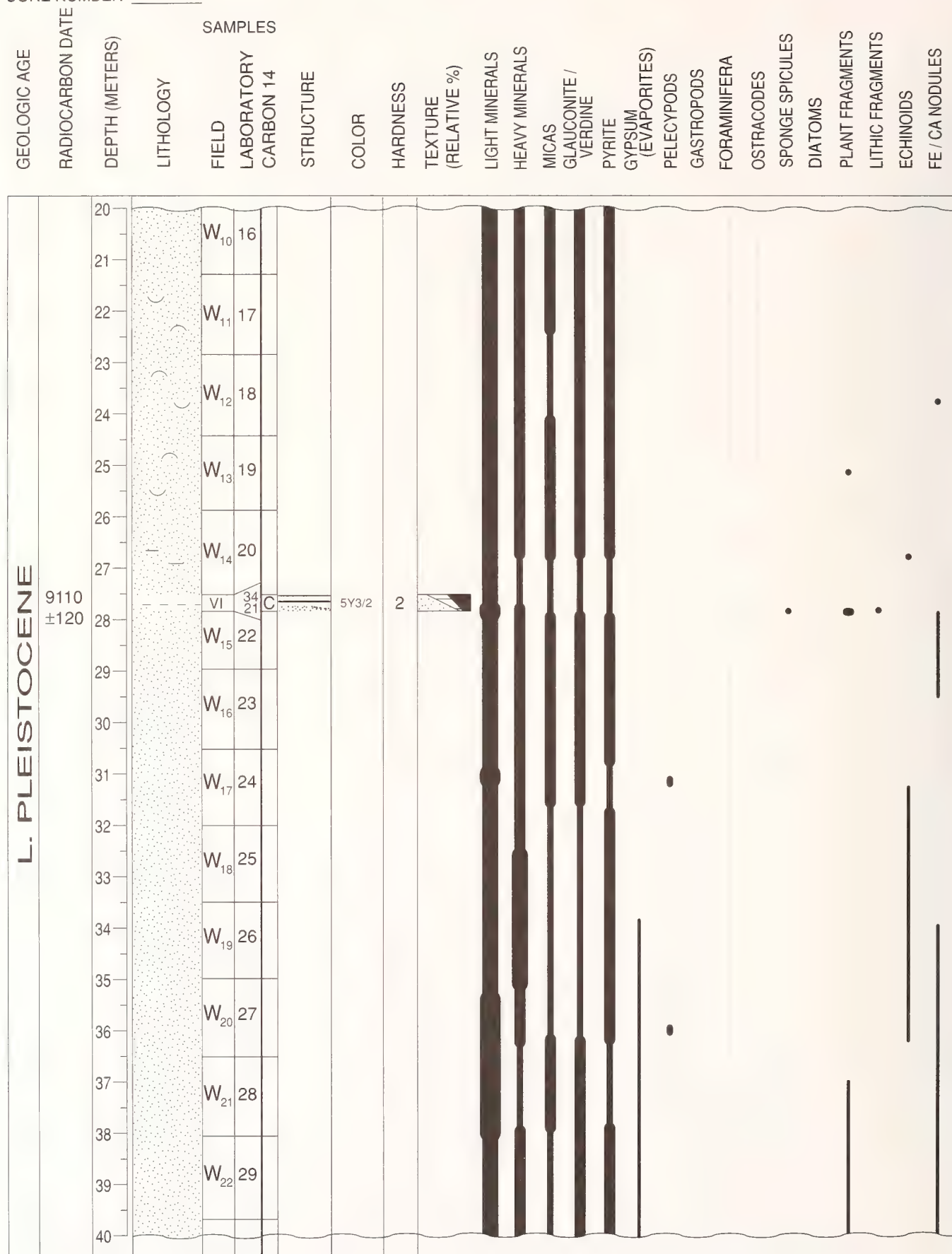


CORE NUMBER S58 II[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S59 I

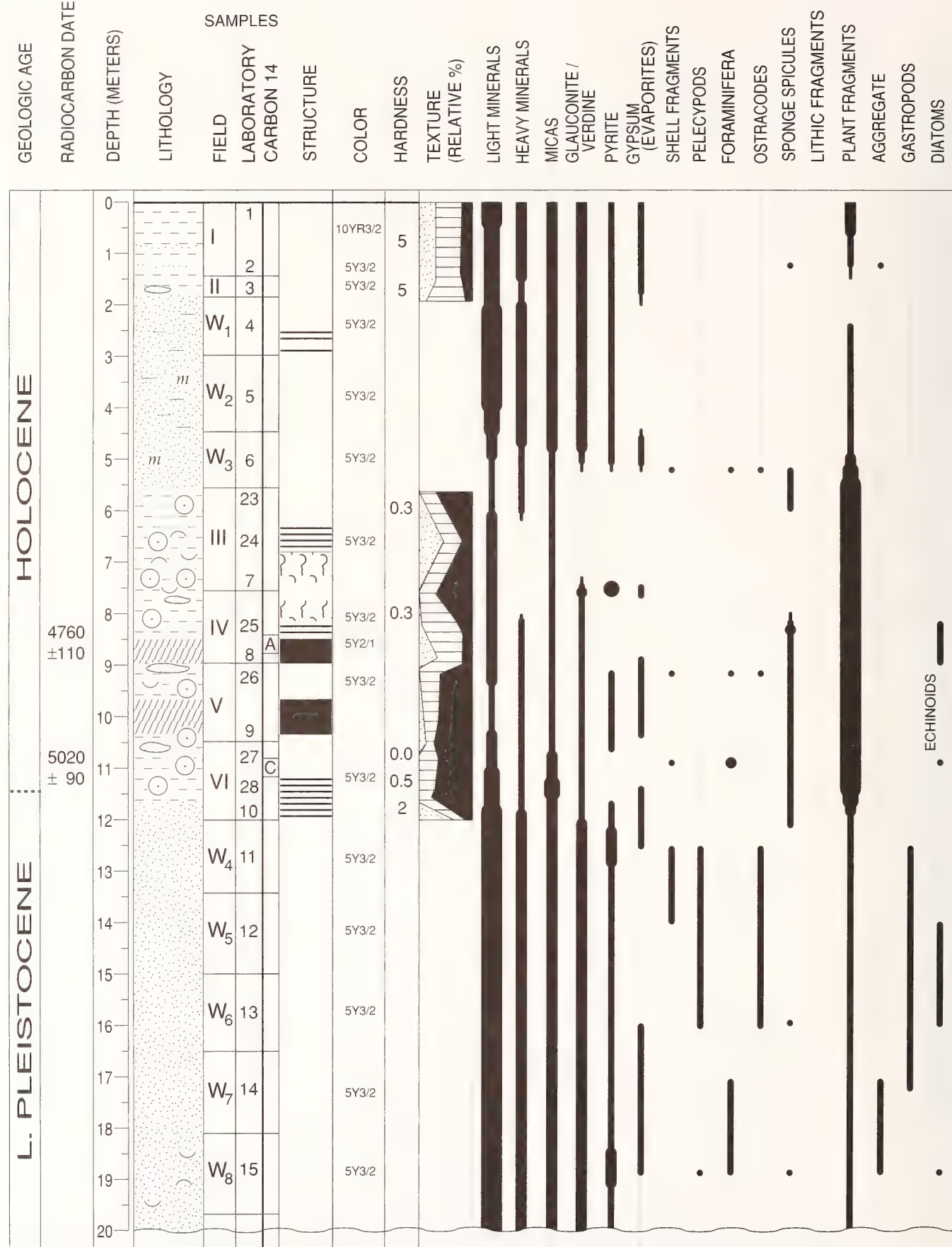
CORE NUMBER S59 II







## APPENDIX 1.—Continued.

CORE NUMBER **S60 I**

## APPENDIX 1.—Continued.

[illegible]







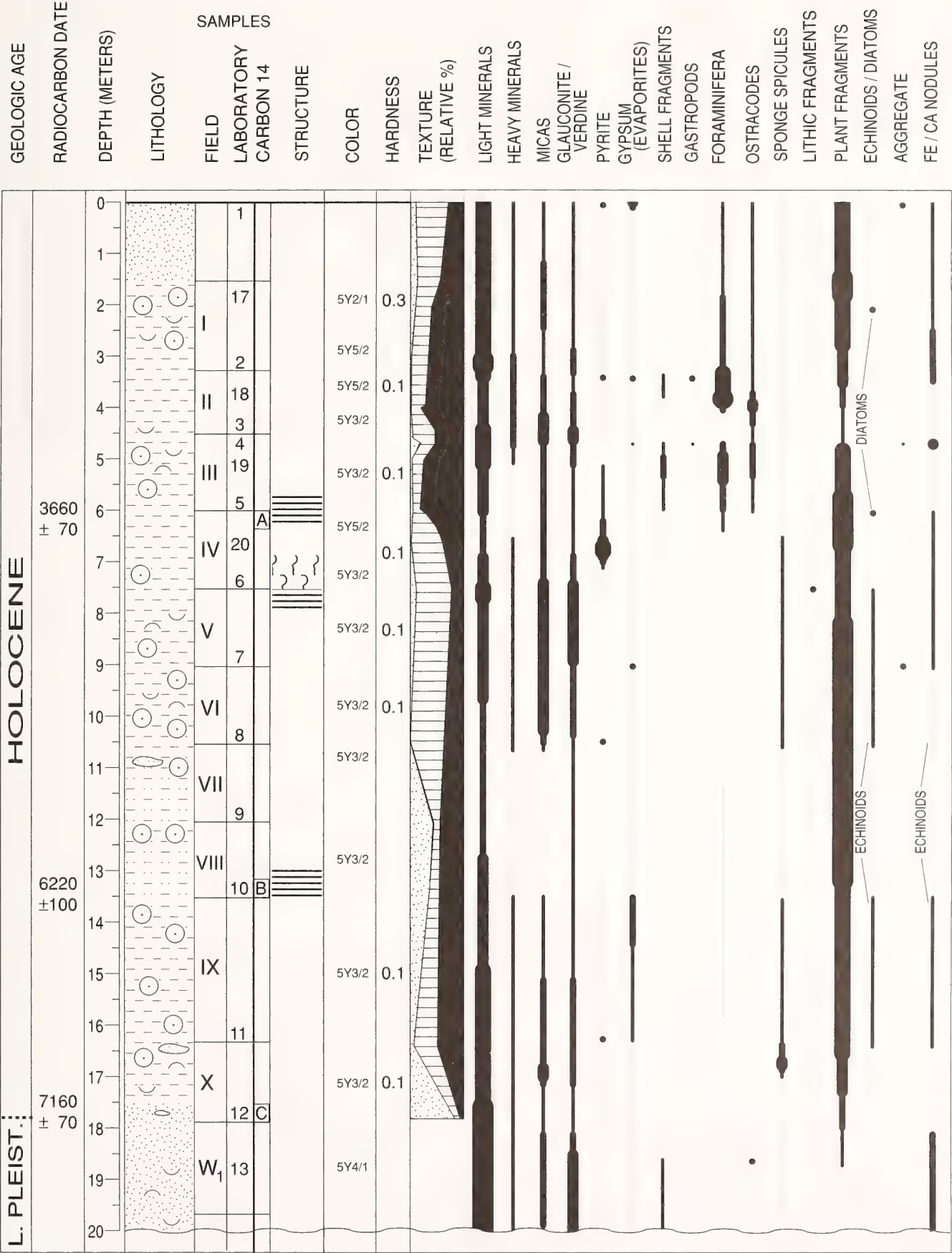
CORE NUMBER S61 III

| CORE NUMBER     |                     | 361 III              |                      |
|-----------------|---------------------|----------------------|----------------------|
| GEOLOGIC AGE    | RADIOCARBON DATE    | DEPTH (METERS)       | SAMPLES              |
| LITHOLOGY       | FIELD               | LABORATORY CARBON 14 | STRUCTURE            |
| COLOR           | HARDNESS            | TEXTURE (RELATIVE %) |                      |
| LIGHT MINERALS  | HEAVY MINERALS      | MICAS                | GLAUCONITE / VERDINE |
| PYRITE          | GYPNUM (EVAPORITES) | SHELL FRAGMENTS      | DIAZONES             |
| FORAMINIFERA    | OSTRACODES          | SPONGE SPICULES      | LITHIC FRAGMENTS     |
| PLANT FRAGMENTS | AGGREGATE           | GASTROPODS           | CARBONATE PARTICLES  |
|                 |                     | 40                   |                      |
|                 |                     | 41                   |                      |
|                 |                     | 42                   |                      |
|                 |                     | 43                   |                      |
|                 |                     | 44                   |                      |
|                 |                     | 45                   |                      |
|                 |                     | 46                   |                      |
|                 |                     | 47                   |                      |
|                 |                     | 48                   |                      |
|                 |                     | 49                   |                      |
|                 |                     | 50                   |                      |
|                 |                     | 51                   |                      |
|                 |                     | 52                   |                      |
|                 |                     | 53                   |                      |
|                 |                     | 54                   |                      |
|                 |                     | 55                   |                      |
|                 |                     | 56                   |                      |
|                 |                     | 57                   |                      |
|                 |                     | 58                   |                      |
|                 |                     | 59                   |                      |
|                 |                     | 60                   |                      |



APPENDIX 1.—Continued.

CORE NUMBER S62 I

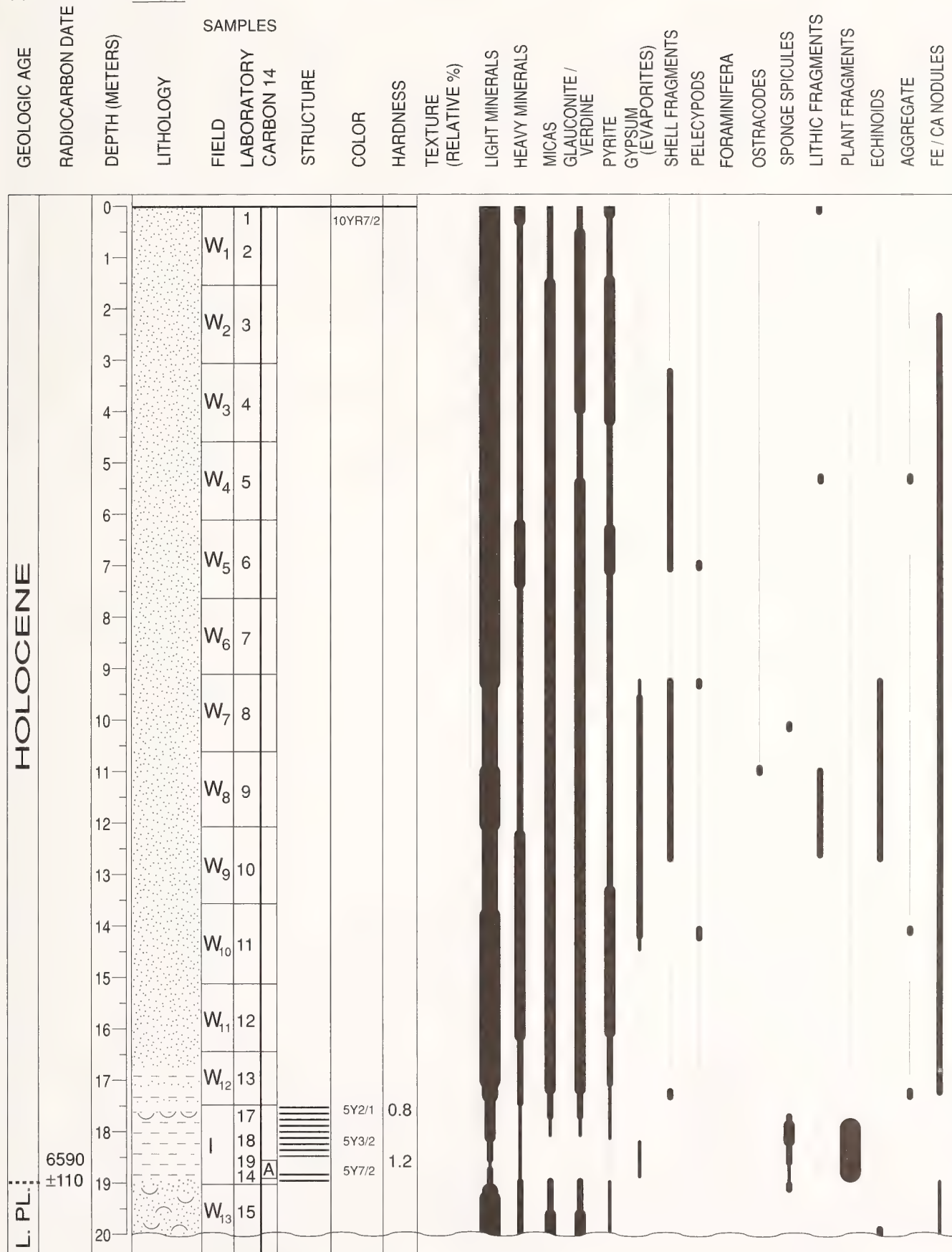


## APPENDIX 1.—Continued.

# L. PLEISTOCENE

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S63 I

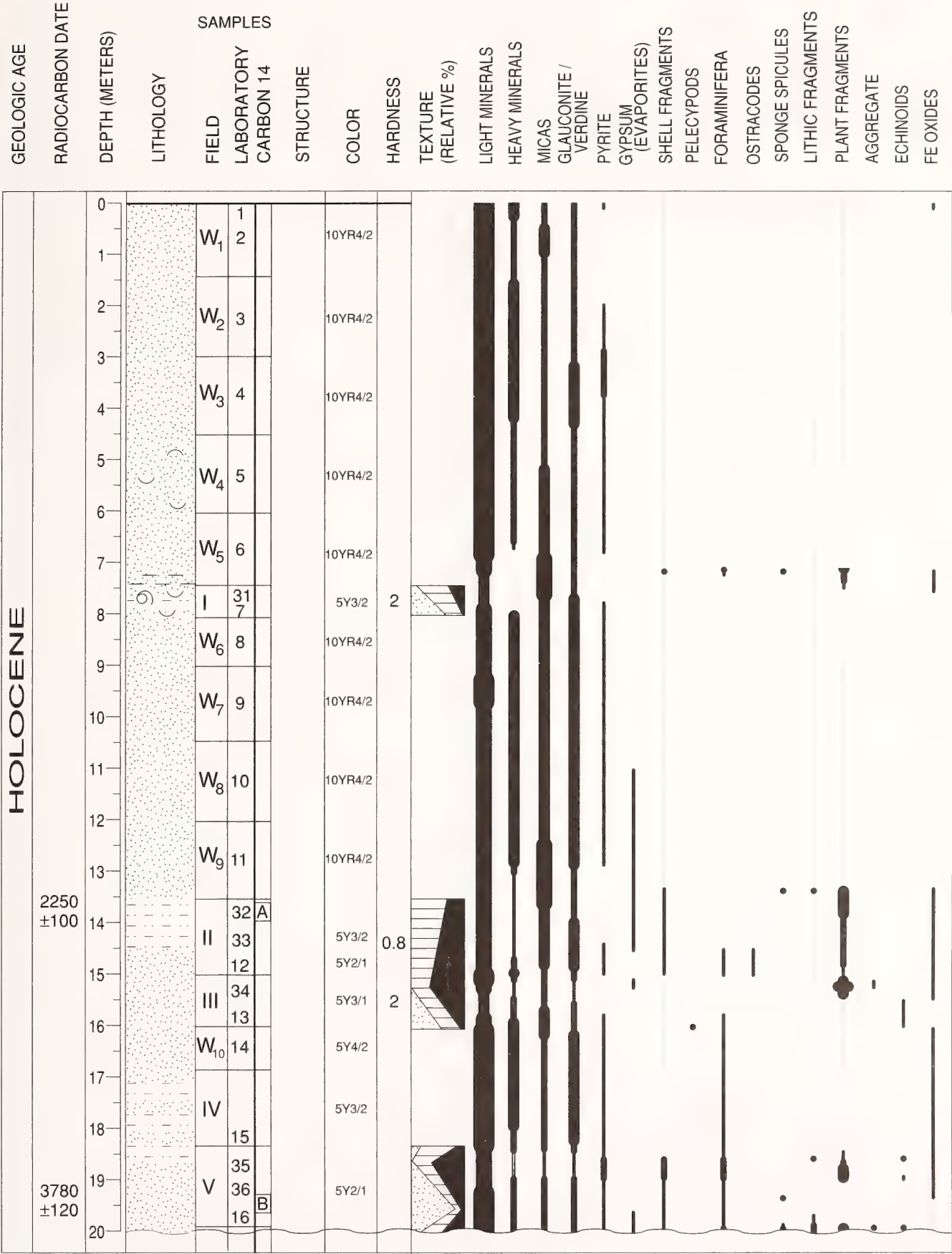


CORE NUMBER S63 II

[illegible]

APPENDIX 1.—Continued.

CORE NUMBER S64 I



CORE NUMBER S64 II

[illegible]





CORE NUMBER S65 1

| GEOLOGIC AGE |  | RADIOCARBON DATE |  | DEPTH (METERS) |  | LITHOLOGY |  | SAMPLES |  | STRUCTURE |  | COLOR |  | HARDNESS |  | TEXTURE (RELATIVE %) |  | LIGHT MINERALS |  | HEAVY MINERALS |  | MICAS |  | GLAUCONITE / VERDINE |  | PYRITE |  | GYPSUM (EVAPORITES) |  | SHELL FRAGMENTS |  | SHELL WHOLE |  | FORAMINIFERA |  | OSTRACODES |  | SPONGE SPICULES |  | LITHIC FRAGMENTS |  | PLANT FRAGMENTS |  | AGGREGATE |  | OTHER |  | CLAY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|--|------------------|--|----------------|--|-----------|--|---------|--|-----------|--|-------|--|----------|--|----------------------|--|----------------|--|----------------|--|-------|--|----------------------|--|--------|--|---------------------|--|-----------------|--|-------------|--|--------------|--|------------|--|-----------------|--|------------------|--|-----------------|--|-----------|--|-------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| HOLOCENE     |  |                  |  | 0              |  |           |  | 1       |  |           |  | 5Y4/2 |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |                 |  |                  |  |                 |  |           |  |       |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |





CORE NUMBER S65 III[illegible]



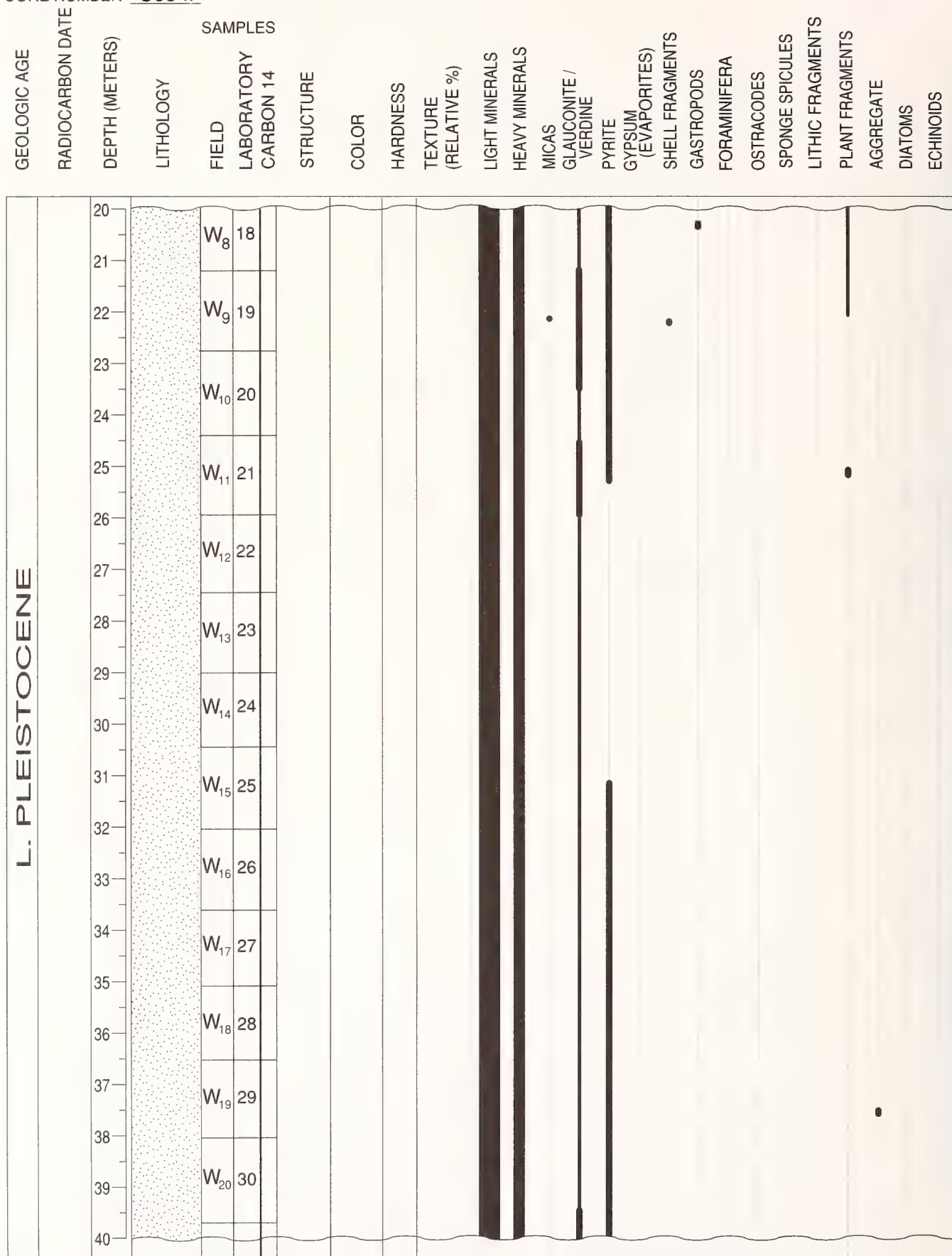
## CORE NUMBER S67

[illegible]





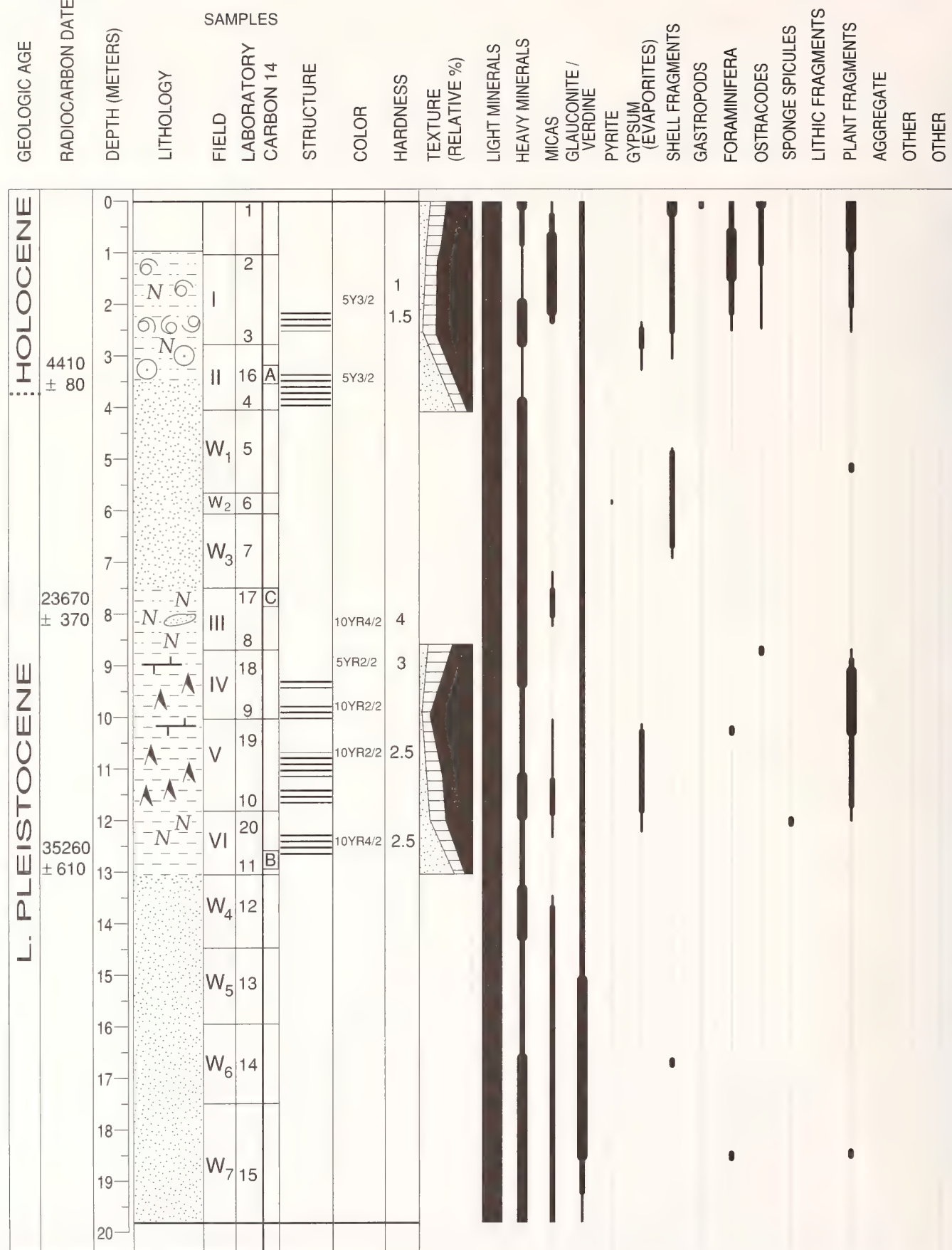
CORE NUMBER S68 II



CORE NUMBER S68 III[illegible]

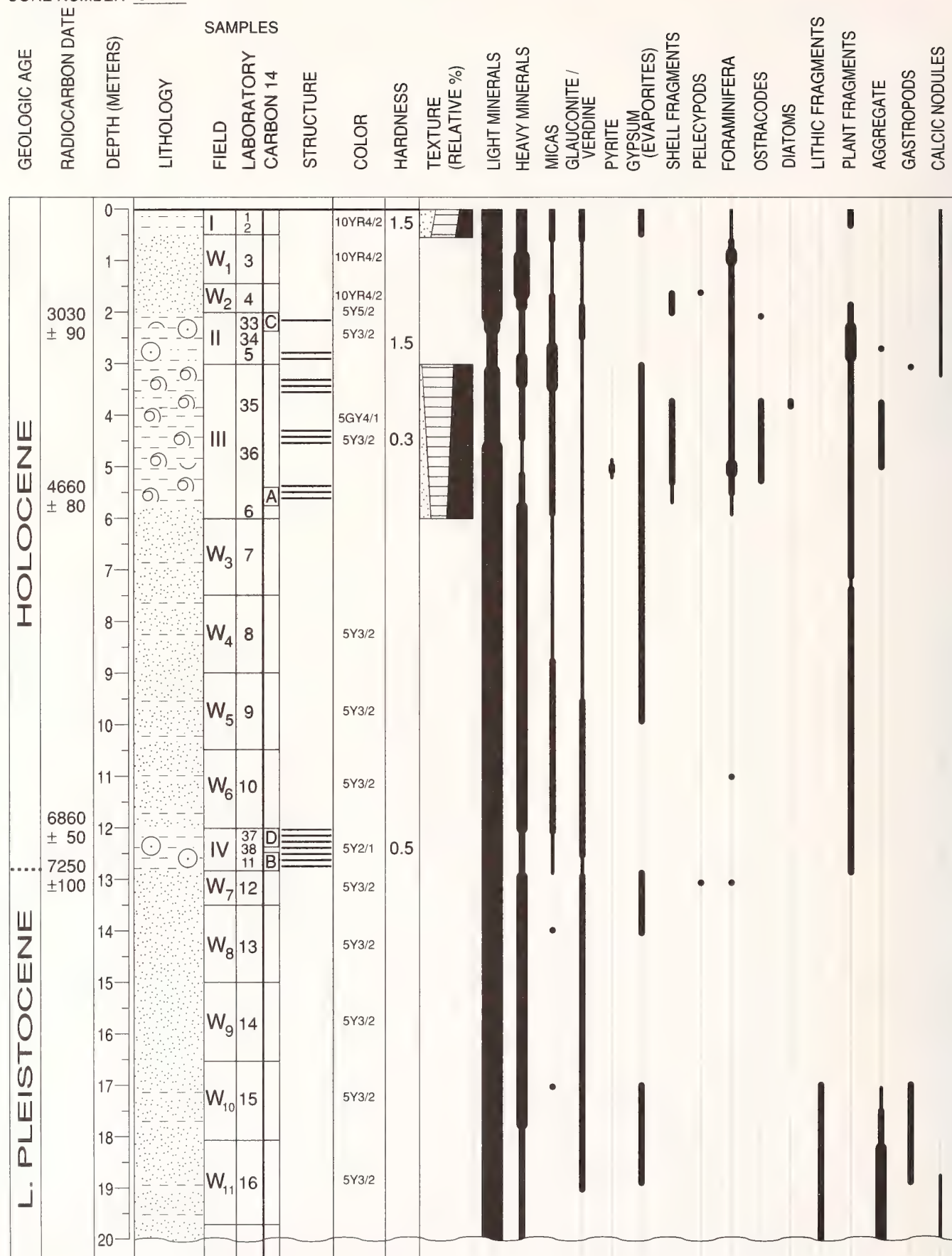


## CORE NUMBER S69



| HOLOCENE     |                 | L. PLEISTOCENE |             |
|--------------|-----------------|----------------|-------------|
| 0            | I               | 1              | 10YR2/2 1.5 |
| 1            | N               | 2              | 0.5         |
| 3220<br>±120 | II              | 15             | 10YR2/2 1.5 |
| 2            | m               | 3              | A           |
| 3690<br>±140 | III             | 16             | 10YR2/2 0.5 |
| 3            | m               | 4              | B           |
| 4            | m               | 5              | 10YR2/2     |
| 5            | W <sub>1</sub>  | 6              |             |
| 6            | W <sub>2</sub>  | 7              |             |
| 7            | W <sub>3</sub>  | 8              |             |
| 8            | W <sub>4</sub>  | 9              |             |
| 9            | W <sub>5</sub>  | 10             |             |
| 10           | W <sub>6</sub>  | 11             |             |
| 11           | W <sub>7</sub>  | 12             | 5Y5/2       |
| 12           | W <sub>8</sub>  | 13             | 5Y5/2       |
| 13           | W <sub>9</sub>  | 14             | 5Y5/2       |
| 14           | W <sub>10</sub> |                |             |
| 15           |                 |                |             |
| 16           |                 |                |             |
| 17           |                 |                |             |
| 18           |                 |                |             |
| 19           |                 |                |             |
| 20           |                 |                |             |

## CORE NUMBER S71 I



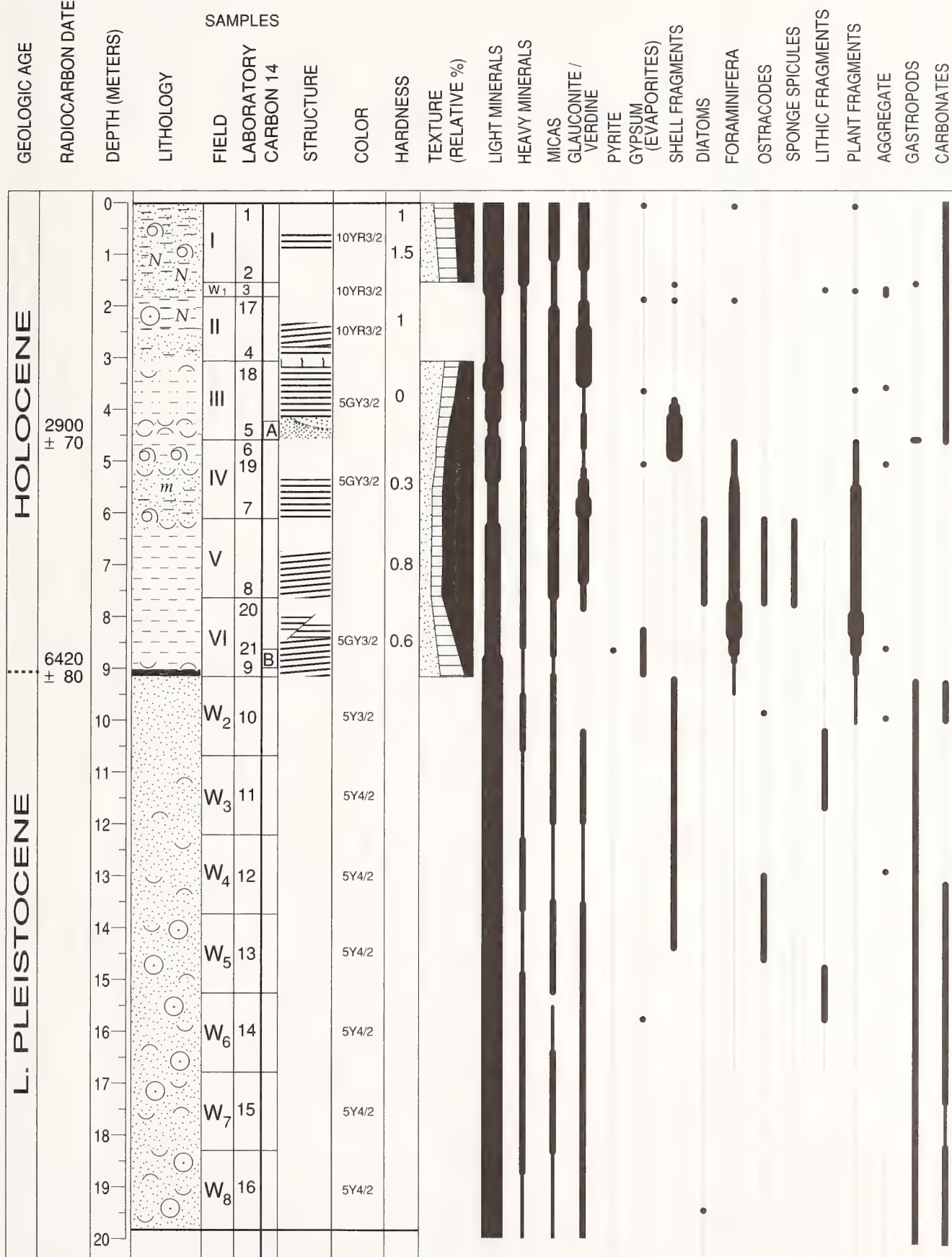


CORE NUMBER S71 II

[illegible]

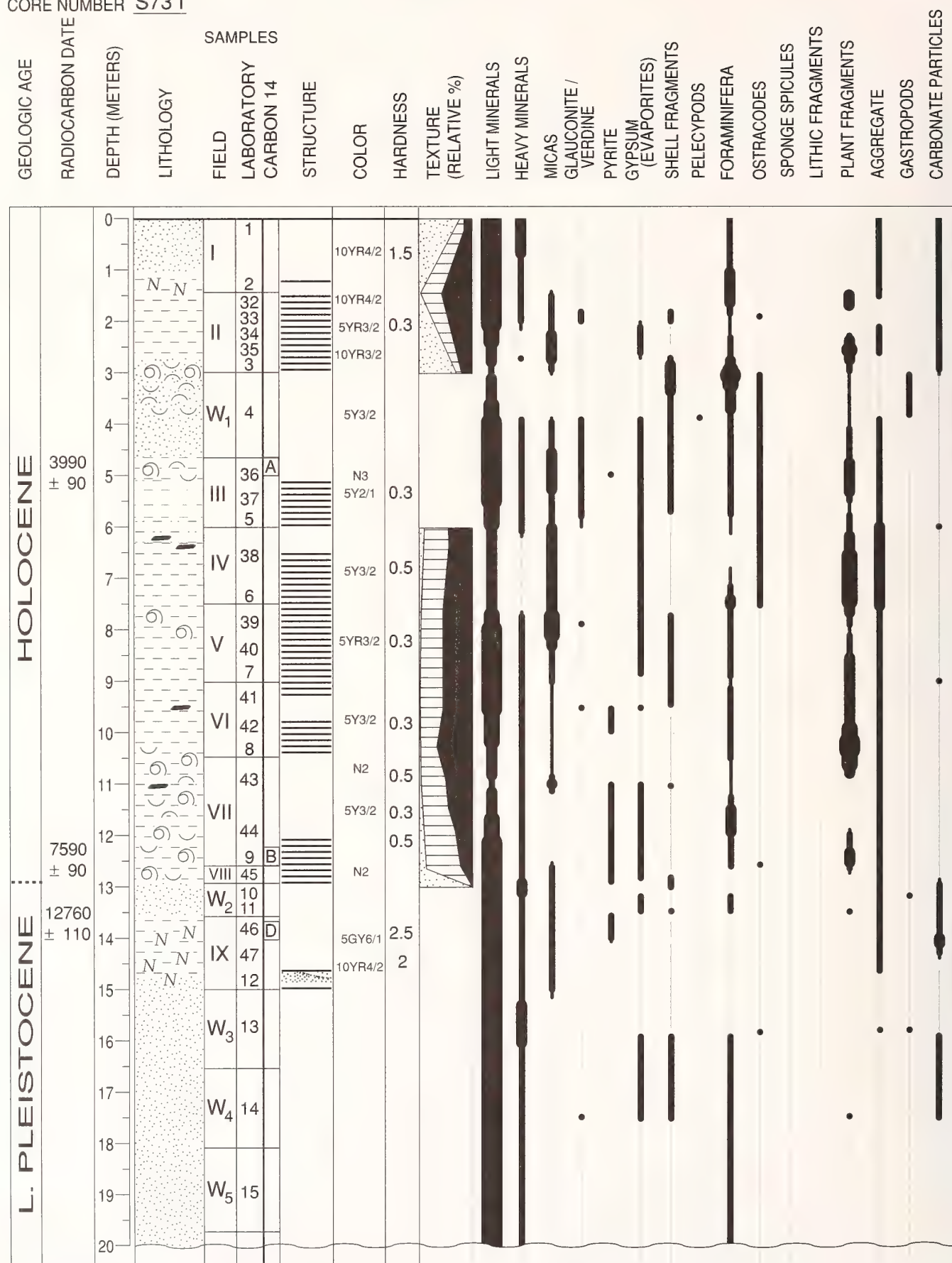
CORE NUMBER S71 III

[illegible]

CORE NUMBER S72



CORE NUMBER S73 I





CORE NUMBER S73 III

[illegible]



## APPENDIX 1.—Continued.

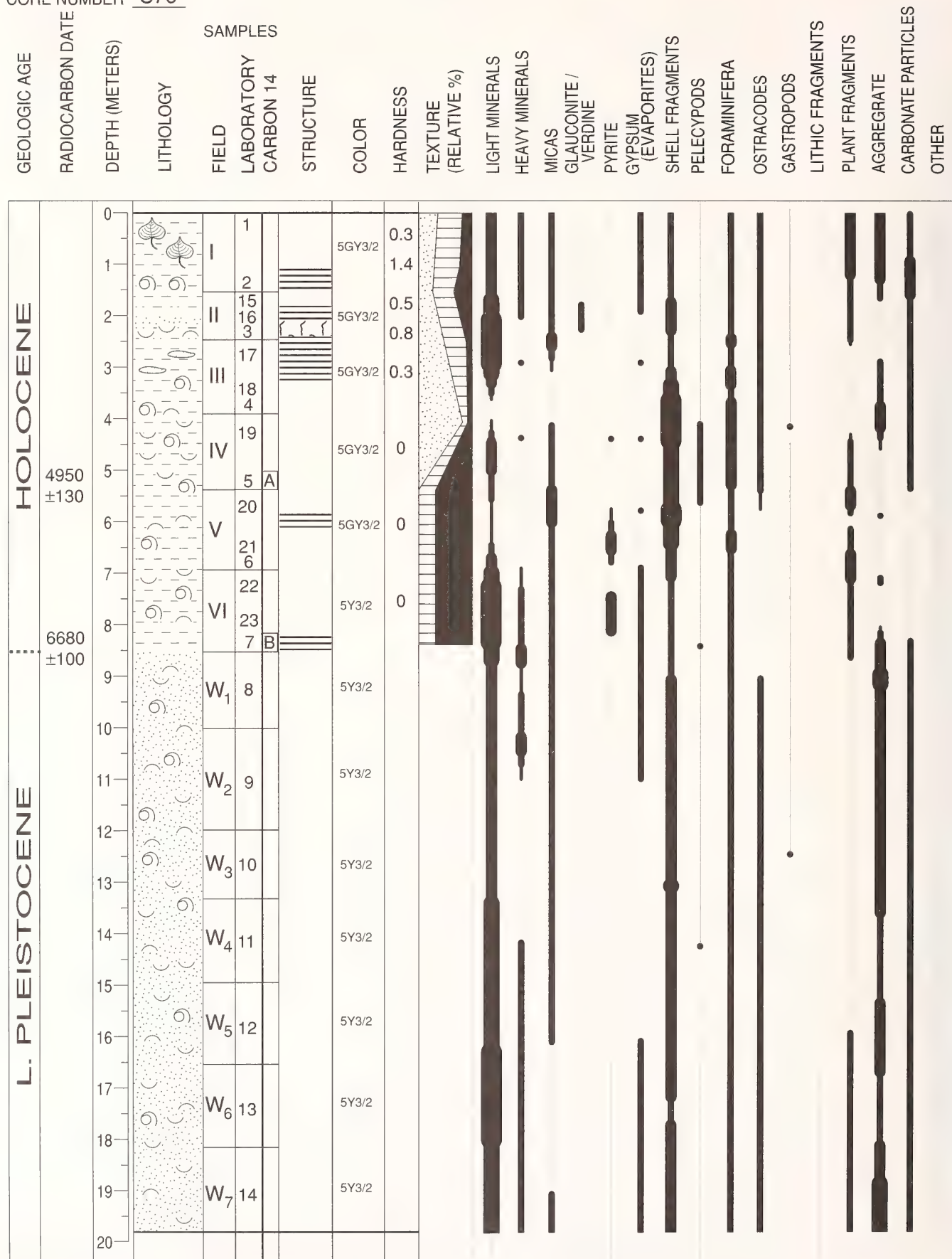
CORE NUMBER S74

[illegible]



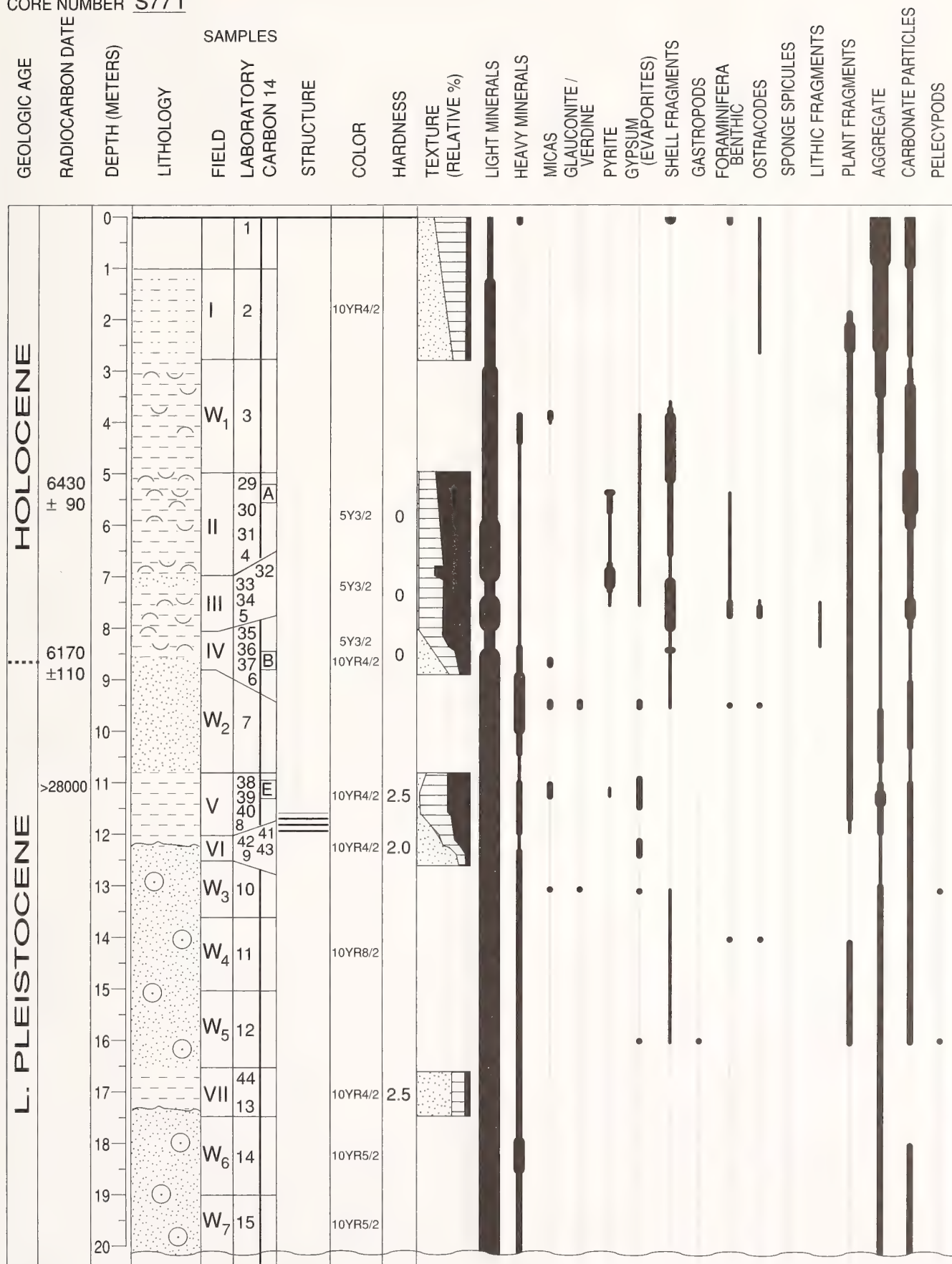
[illegible]



CORE NUMBER S76

## APPENDIX 1.—Continued.

CORE NUMBER S77 I



CORE NUMBER S77 II

| L. PLEISTOCENE |                  |                |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|----------------|------------------|----------------|-----------------|-----------------|----|-----------|-------------------------------|----------|----------------------|----------------|----------------|-------|----------------------|--------|---------------------|-----------------|------------|--------------|------------|-----------------|------------------|-----------------|-----------|---------------------|------------|
| GEOLOGIC AGE   | RADIOCARBON DATE | DEPTH (METERS) | LITHOLOGY       | SAMPLES         |    | STRUCTURE | COLOR                         | HARDNESS | TEXTURE (RELATIVE %) | LIGHT MINERALS | HEAVY MINERALS | MICAS | GLAUCONITE / VERDINE | PYRITE | GYPSUM (EVAPORITES) | SHELL FRAGMENTS | GASTROPODS | FORAMINIFERA | OSTRACODES | SPONGE SPICULES | LITHIC FRAGMENTS | PLANT FRAGMENTS | AGGREGATE | CARBONATE PARTICLES | PELECYPODS |
|                |                  | 20             |                 | W <sub>7</sub>  | 15 |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 21             |                 | W <sub>8</sub>  | 16 |           | 10YR5/2                       |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 22             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 23             |                 | W <sub>9</sub>  | 17 |           | 10YR5/2<br>10YR8/1<br>10YR7/4 |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 24             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 25             |                 | W <sub>10</sub> | 18 |           | 10YR5/2                       |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 26             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 27             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 28             |                 | W <sub>12</sub> | 20 |           | 10YR5/2                       |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 29             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 30             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 31             |                 | W <sub>14</sub> | 22 |           | 10YR5/2                       |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 32             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 33             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 34             |                 | W <sub>16</sub> | 24 |           | 10YR5/2                       |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 35             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 36             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 37             |                 | W <sub>18</sub> | 26 |           | 10YR5/2                       |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 38             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 39             |                 | W <sub>19</sub> | 27 |           | 10YR5/2                       |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  | 40             |                 |                 |    |           |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |
|                |                  |                | W <sub>20</sub> | 28              |    | 10YR5/2   |                               |          |                      |                |                |       |                      |        |                     |                 |            |              |            |                 |                  |                 |           |                     |            |



CORE NUMBER S77 III

| CORE NUMBER     |                     | S77 III              |                      |
|-----------------|---------------------|----------------------|----------------------|
| GEOLOGIC AGE    | RADIOCARBON DATE    | DEPTH (METERS)       | SAMPLES              |
| LITHOLOGY       | FIELD               | LABORATORY CARBON 14 | STRUCTURE            |
| COLOR           | HARDNESS            | TEXTURE (RELATIVE %) |                      |
| LIGHT MINERALS  | HEAVY MINERALS      | MICAS                | GLAUCONITE / VERDINE |
| PYRITE          | GYPSUM (EVAPORITES) | SHELL FRAGMENTS      | GASTROPODS           |
| FORAMINIFERA    | OSTRACODES          | SPONGE SPICULES      | LITHIC FRAGMENTS     |
| PLANT FRAGMENTS | AGGREGATE           | CARBONATE PARTICLES  | PELECYPODS           |
| 40              | W <sub>20</sub>     | 28                   | 10YR5/2              |
| 41              |                     |                      |                      |
| 42              |                     |                      |                      |
| 43              |                     |                      |                      |
| 44              |                     |                      |                      |
| 45              |                     |                      |                      |
| 46              |                     |                      |                      |
| 47              |                     |                      |                      |
| 48              |                     |                      |                      |
| 49              |                     |                      |                      |
| 50              |                     |                      |                      |
| 51              |                     |                      |                      |
| 52              |                     |                      |                      |
| 53              |                     |                      |                      |
| 54              |                     |                      |                      |
| 55              |                     |                      |                      |
| 56              |                     |                      |                      |
| 57              |                     |                      |                      |
| 58              |                     |                      |                      |
| 59              |                     |                      |                      |
| 60              |                     |                      |                      |



## APPENDIX 1.—Continued.

CORE NUMBER S79 I

[illegible]



CORE NUMBER S79 II

| CORE NUMBER         |                  | 579 II               |                 |
|---------------------|------------------|----------------------|-----------------|
| GEOLOGIC AGE        | RADIOCARBON DATE | DEPTH (METERS)       | SAMPLES         |
| LITHOLOGY           | FIELD            | LABORATORY CARBON 14 | STRUCTURE       |
| COLOR               | HARDNESS         | TEXTURE (RELATIVE %) | LIGHT MINERALS  |
| HEAVY MINERALS      | MICAS            | GLAUCONITE / VERDINE | PYRITE          |
| GYPSUM (EVAPORITES) | SHELL FRAGMENTS  | PELECYPODS           | FORAMINIFERA    |
| OSTRACODES          | SPONGE SPICULES  | LITHIC FRAGMENTS     | PLANT FRAGMENTS |
| AGGREGATE           | GASTROPODS       | CARBONATE PARTICLES  |                 |
| 20                  | W <sub>9</sub>   | 15                   |                 |
| 21                  | W <sub>10</sub>  | 16                   | 5Y5/2           |
| 22                  | W <sub>11</sub>  | 17                   |                 |
| 23                  | W <sub>12</sub>  | 18                   |                 |
| 24                  | W <sub>13</sub>  | 19                   | 10YR8/2         |
| 25                  | W <sub>14</sub>  | 20                   |                 |
| 26                  | W <sub>15</sub>  | 21                   | 5Y5/2           |
| 27                  | W <sub>16</sub>  | 22                   |                 |
| 28                  | W <sub>17</sub>  | 23                   | 10YR8/2         |
| 29                  | W <sub>18</sub>  | 24                   |                 |
| 30                  | W <sub>19</sub>  | 25                   |                 |
| 31                  | W <sub>20</sub>  | 26                   |                 |
| 32                  | W <sub>21</sub>  | 27                   | 5Y5/2           |
| 33                  |                  |                      |                 |
| 34                  |                  |                      |                 |
| 35                  |                  |                      |                 |
| 36                  |                  |                      |                 |
| 37                  |                  |                      |                 |
| 38                  |                  |                      |                 |
| 39                  |                  |                      |                 |
| 40                  |                  |                      |                 |

CORE NUMBER S79 III[illegible]

## APPENDIX 1.—Continued.

| GEOLOGIC AGE |  | RADIOCARBON DATES |  | DEPTH (METERS) | LITHOLOGY | FIELD          | LABORATORY CARBON 14 | STRUCTURE | COLOR | HARDNESS | TEXTURE (RELATIVE %) | LIGHT MINERALS | HEAVY MINERALS | MICAS | GLAUCONITE / VERDINE | PYRITE | GYPSUM (EVAPORITES) | SHELL FRAGMENT | PELECYPODS | FORAMINIFERA | OSTRACODES | SPONGE SPICULES | LITHIC FRAGMENT | PLANT FRAGMENT | AGGREGATE | GASTROPODS | CARBONATE PARTICLES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|--|-------------------|--|----------------|-----------|----------------|----------------------|-----------|-------|----------|----------------------|----------------|----------------|-------|----------------------|--------|---------------------|----------------|------------|--------------|------------|-----------------|-----------------|----------------|-----------|------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| HOLOCENE     |  | 3530 ± 60         |  | 0              |           | I              | 34                   |           | 5Y3/2 | 2        |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 35                |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 1                 |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 2                 |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  |                   |  | 3              |           | W <sub>1</sub> | 2                    |           | 5Y8/1 |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 4                 |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 5                 |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 6                 |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  |                   |  | 7              |           | W <sub>2</sub> | 4                    |           | 5Y5/2 |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 8                 |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 9                 |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  | 10                |  |                |           |                |                      |           |       |          |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|              |  |                   |  | 11             |           | W <sub>3</sub> | 5                    |           | 5Y5/2 | 4.5      |                      |                |                |       |                      |        |                     |                |            |              |            |                 |                 |                |           |            |                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

APPENDIX 1.—Continued.

CORE NUMBER S80 II

| GEOLOGIC AGE   |  | RADIOCARBON DATE | DEPTH (METERS) | LITHOLOGY | SAMPLES         | STRUCTURE | COLOR | HARDNESS           | TEXTURE (RELATIVE %) | LIGHT MINERALS | HEAVY MINERALS | MICAS | GLAUCONITE / VERDINE | PYRITE | GYPSUM (EVAPORITES) | SHELL FRAGMENTS | PELECYPODS | FORAMINIFERA BENTHIC | OSTRACODES | SPONGE SPICULES | LITHIC FRAGMENTS | PLANT FRAGMENTS | AGGREGATE | GASTROPODS | CARBONATE PARTICLES |
|----------------|--|------------------|----------------|-----------|-----------------|-----------|-------|--------------------|----------------------|----------------|----------------|-------|----------------------|--------|---------------------|-----------------|------------|----------------------|------------|-----------------|------------------|-----------------|-----------|------------|---------------------|
| L. PLEISTOCENE |  |                  | 20             |           | W <sub>13</sub> | 17        |       | 10YR4/2            |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 21             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 22             |           | W <sub>14</sub> | 18        |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 23             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 24             |           | W <sub>15</sub> | 19        |       | 10YR4/2            |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 25             |           | W <sub>16</sub> | 20        |       | 10YR8/2<br>10YR7/4 |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 26             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 27             |           | W <sub>17</sub> | 21        |       | 10YR4/2            |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 28             |           | W <sub>18</sub> | 22        |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 29             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 30             |           | W <sub>19</sub> | 23        |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 31             |           | W <sub>20</sub> | 24        |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 32             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 33             |           | W <sub>21</sub> | 25        |       | 10YR8/2<br>10YR7/4 |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 34             |           | W <sub>22</sub> | 26        |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 35             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 36             |           | W <sub>23</sub> | 27        |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 37             |           | W <sub>24</sub> | 28        |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 38             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 39             |           | W <sub>25</sub> | 29        |       | 10YR7/4            |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |
|                |  |                  | 40             |           |                 |           |       |                    |                      |                |                |       |                      |        |                     |                 |            |                      |            |                 |                  |                 |           |            |                     |



CORE NUMBER S80 III

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S81 I

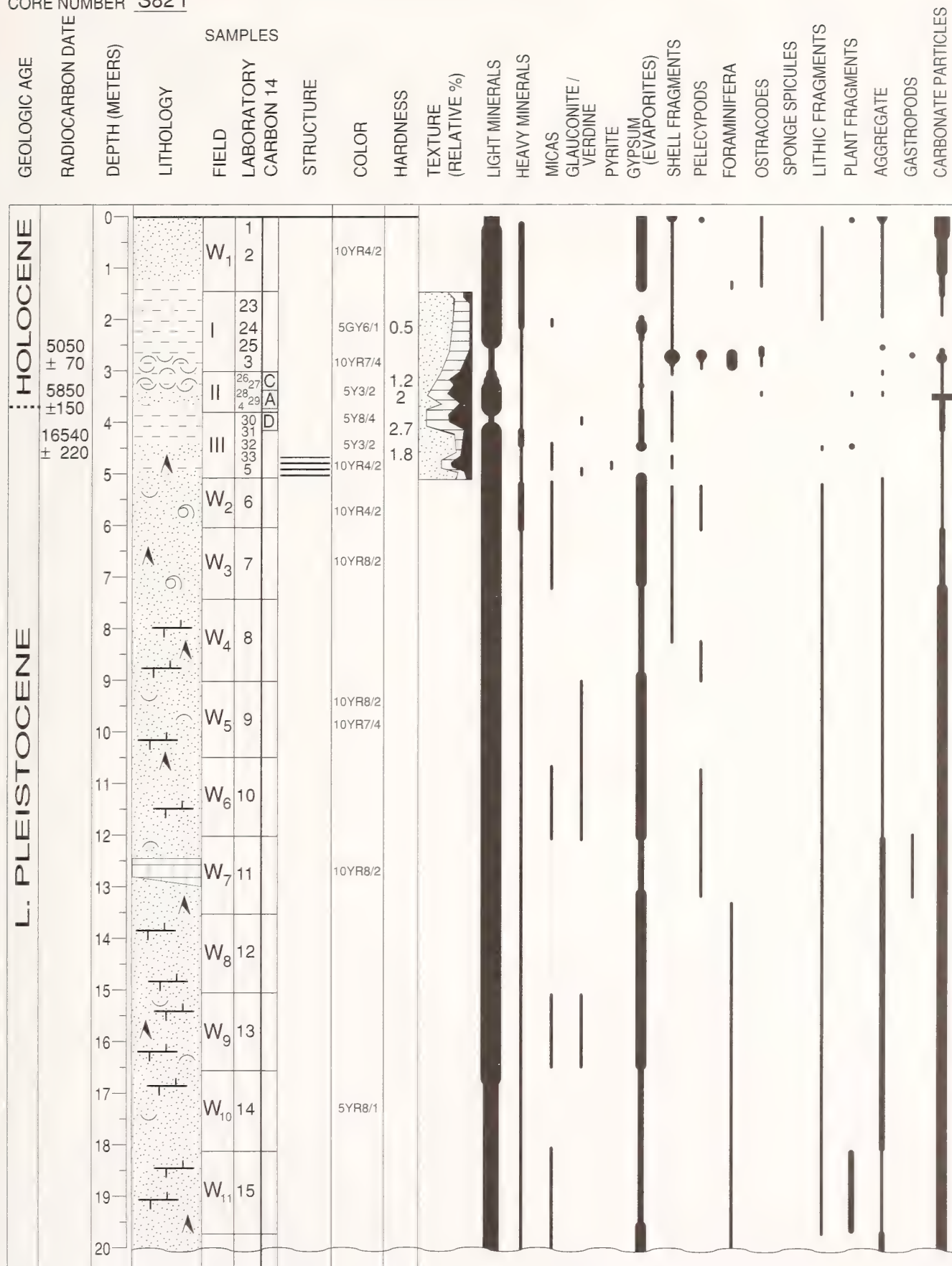
[illegible]

CORE NUMBER S81 II

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S82 I





CORE NUMBER S82 II

[illegible]

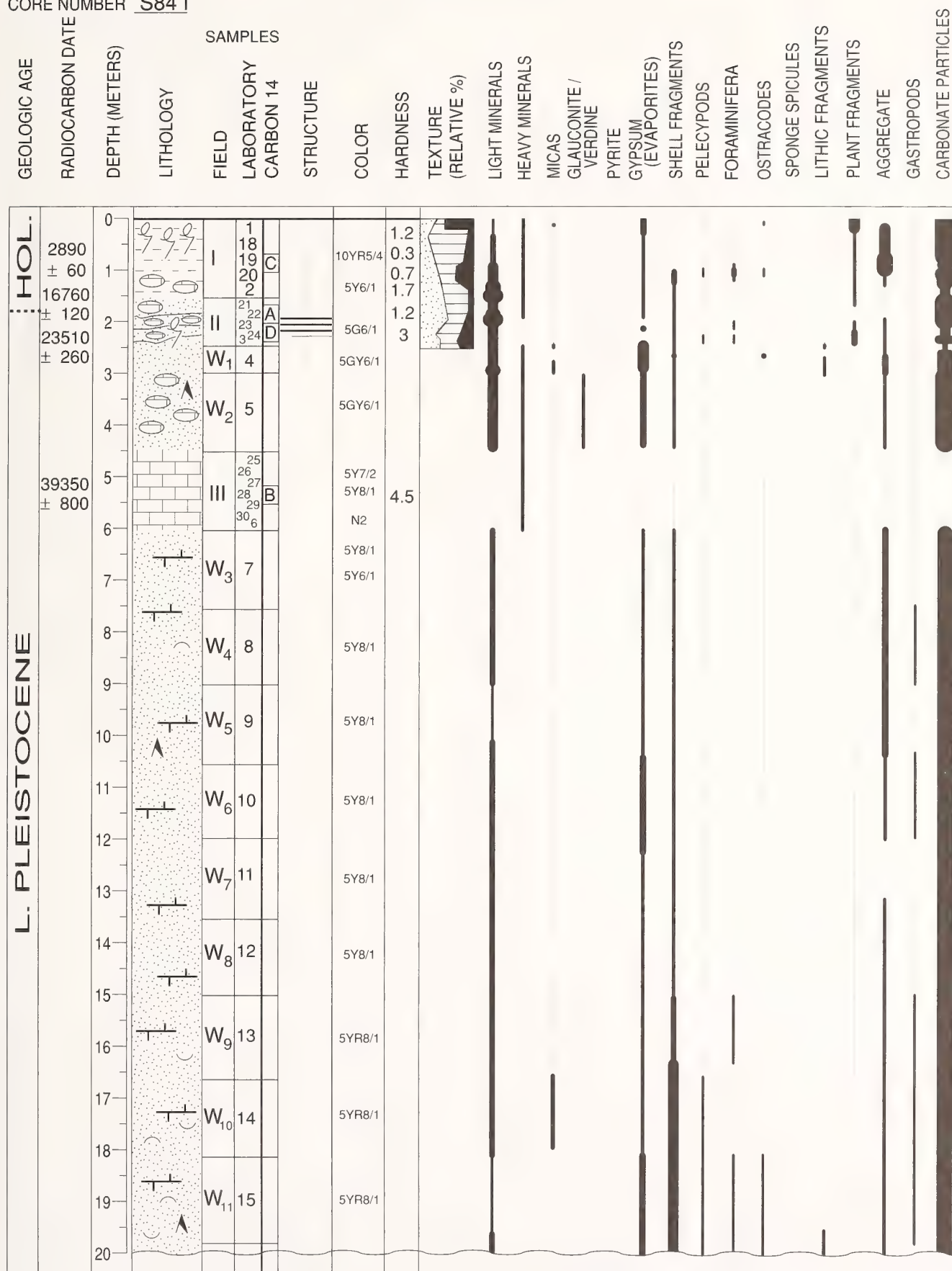
CORE NUMBER S83 I

[illegible]

CORE NUMBER S83 II

[illegible]

## APPENDIX 1.—Continued.

CORE NUMBER S84 I



CORE NUMBER S84 II

[illegible]

CORE NUMBER S85

| GEOLOGIC AGE   |  | RADIOCARBON DATE |  | DEPTH (METERS) |  | LITHOLOGY      |  | SAMPLES   |  | STRUCTURE |  | COLOR              |  | HARDNESS |  | TEXTURE (RELATIVE %) |  | LIGHT MINERALS |  | HEAVY MINERALS |  | MICAS |  | GLAUCONITE / VERDINE |  | PYRITE |  | GYPSUM (EVAPORITES) |  | SHELL FRAGMENTS |  | SHELL WHOLE |  | FORAMINIFERA |  | GASTROPODS |  | PELECPODS |  | LITHIC FRAGMENTS |  | PLANT FRAGMENTS |  | AGGREGATE |  | CARBONATE PARTICLES |  | OTHER |  |
|----------------|--|------------------|--|----------------|--|----------------|--|---|--|-----------|--|--------------------|--|----------|--|----------------------|--|----------------|--|----------------|--|-------|--|----------------------|--|--------|--|---------------------|--|-----------------|--|-------------|--|--------------|--|------------|--|-----------|--|------------------|--|-----------------|--|-----------|--|---------------------|--|-------|--|
| L. PLEISTOCENE |  | 20330 ± 270      |  | 0              |  | W <sub>1</sub> |  | 1   |  |           |  | 5YR8/1             |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 1              |  | W <sub>2</sub> |  | 3   |  |           |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 2              |  | W <sub>3</sub> |  | 4   |  |           |  | 10YR8/2<br>10YR7/4 |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 3              |  | W <sub>4</sub> |  | 5   |  | B         |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 4              |  | W <sub>5</sub> |  | 6   |  |           |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 5              |  | W <sub>6</sub> |  | 7   |  |           |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 6              |  |                |  | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20  |  | A         |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 7              |  | I              |  | 8<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35<br>36 |  |           |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 8              |  | II             |  |   |  |           |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 9              |  | III            |  |   |  |           |  | 10YR8/2            |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 10             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 11             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 12             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 13             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 14             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 15             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 16             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 17             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 18             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 19             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |
|                |  |                  |  | 20             |  |                |  |   |  |           |  |                    |  |          |  |                      |  |                |  |                |  |       |  |                      |  |        |  |                     |  |                 |  |             |  |              |  |            |  |           |  |                  |  |                 |  |           |  |                     |  |       |  |



## APPENDIX 1.—Continued.

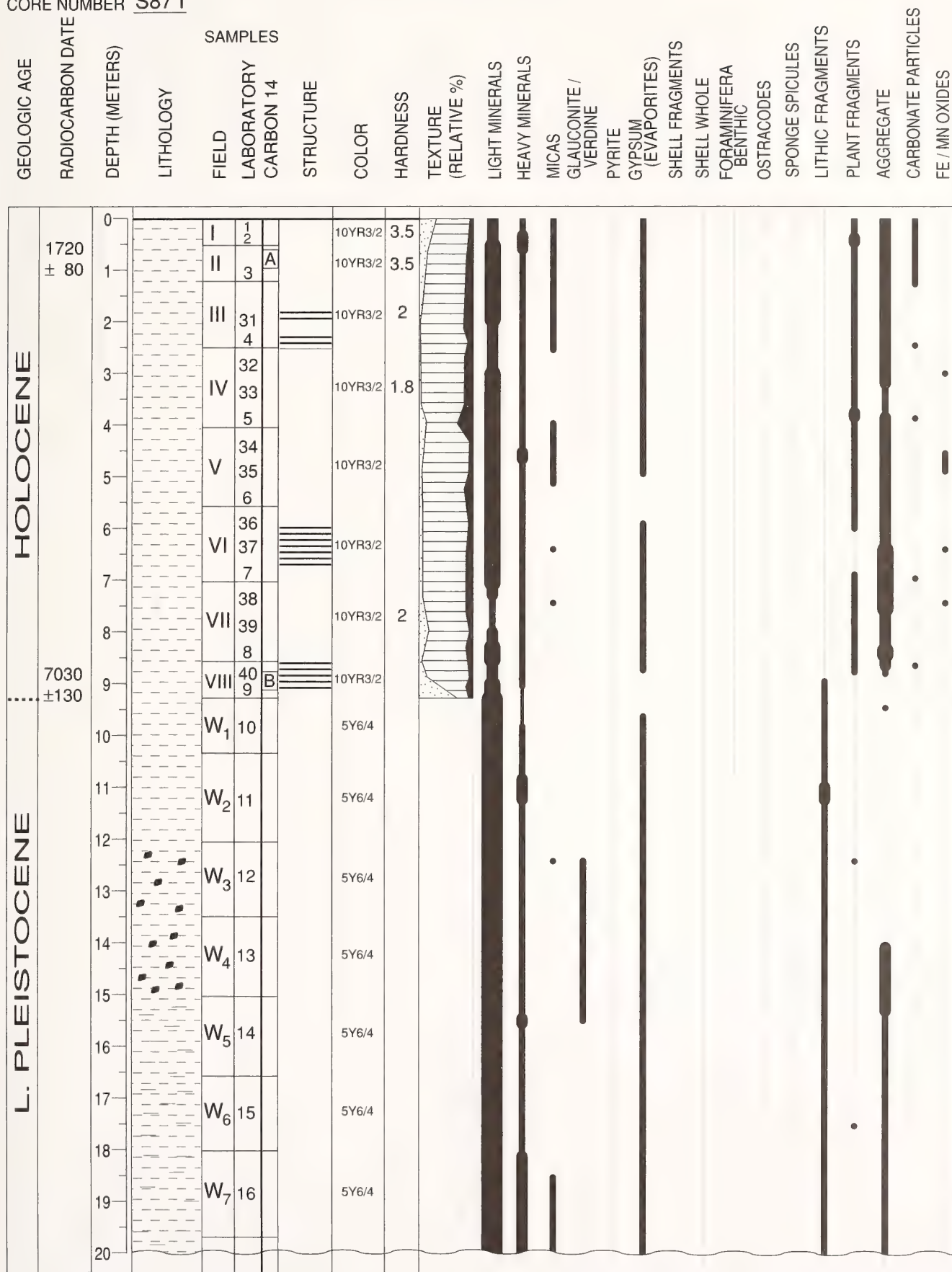
CORE NUMBER S86 II

[illegible]





## CORE NUMBER S87 I



CORE NUMBER S87 II

[illegible]

CORE NUMBER S87 III

[illegible]





## Appendix 2: Core Sample Data Listings

### Legend

#### TEXTURAL ANALYSIS

|      |      |
|------|------|
| SAND | Sand |
| SILT | Silt |
| CLAY | Clay |

TOTAL = 100%

#### POINT COUNT ANALYSIS

| Abbreviation | Composition                |
|--------------|----------------------------|
| LT           | Light mineral              |
| HVY          | Heavy mineral              |
| MICA         | Mica                       |
| GLAU         | Glaucinite/Verdine         |
| PYRT         | Pyrite                     |
| EVAP         | Evaporite                  |
| GYP          | Gypsum                     |
| LITH         | Lithic fragment            |
| AGG          | Aggregate                  |
| PLTM         | Plant material             |
| FORB         | Foraminifera, Benthic      |
| FORP         | Foraminifera, Planktonic   |
| GSHW         | Gastropod shell, Whole     |
| GSHF         | Gastropod shell, Fragment  |
| PSHW         | Pelecypod shell, Whole     |
| PSHF         | Pelecypod shell, Fragment  |
| SHLW         | Shell, Whole               |
| SHLF         | Shell, Fragment            |
| OSTR         | Ostracode                  |
| SPNG         | Sponge spicule             |
| ECHIN        | Echinoderm                 |
| BRYO         | Bryozoa                    |
| WRMT         | Worm tube                  |
| PTER         | Pteropod                   |
| DIAT         | Diatom                     |
| INSCT        | Insect                     |
| RADIO        | Radiolaria                 |
| OTH          | Other                      |
| Fe OXIDE     | Iron Oxide                 |
| WHITE        | White calcareous carbonite |
| CARBT        | Carbonate                  |

TOTAL = 100%

CARBON-14                      Radiocarbon date

## APPENDIX 2.—Continued.

## CORE S1

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 1.0   | 1  | 98.88 | 0.25  | 0.87  | 82.2 | 7.5  | 0.0  | 6.6  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.2   | 2  | 98.30 | 0.53  | 1.17  | 82.6 | 7.8  | 0.0  | 5.0  | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3.2   | 3  | 87.03 | 7.60  | 5.37  | 75.9 | 11.1 | 0.0  | 9.6  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.0   | 4  | 96.81 | 2.25  | 0.94  | 81.5 | 7.2  | 0.5  | 7.2  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.2   | 5  | 95.90 | 2.33  | 1.77  | 76.9 | 9.8  | 0.1  | 9.8  | 0.0  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.2   | 6  | 59.69 | 31.78 | 8.53  | 76.9 | 13.2 | 0.1  | 6.3  | 0.0  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.0   | 7  | 95.24 | 2.73  | 2.03  | 75.6 | 12.4 | 0.0  | 7.9  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8.3   | 8  | 94.30 | 2.76  | 2.94  | 70.9 | 9.0  | 1.1  | 14.6 | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.2  | 0.0  |
| 9.8   | 9  | 5.45  | 50.29 | 44.26 | 70.3 | 4.0  | 4.3  | 12.6 | 0.0  | 0.0  | 2.2  | 0.0  | 6.0  | 0.0  | 0.0  |
| 10.1  | 10 | 44.25 | 41.42 | 14.33 | 68.5 | 3.9  | 2.5  | 19.4 | 0.0  | 0.0  | 4.6  | 0.0  | 0.0  | 0.2  | 0.0  |
| 11.4  | 11 | 0.64  | 46.85 | 52.51 | 10.9 | 0.2  | 3.9  | 2.1  | 33.9 | 0.0  | 0.0  | 33.9 | 14.4 | 0.0  | 0.0  |
| 10.7  | 12 | 13.25 | 64.43 | 22.32 | 43.5 | 2.2  | 7.0  | 27.8 | 0.7  | 0.0  | 0.0  | 15.8 | 1.9  | 0.0  | 0.0  |
| 12.7  | 13 | 1.15  | 55.91 | 42.94 | 27.7 | 0.2  | 27.0 | 24.4 | 0.0  | 0.0  | 0.0  | 12.3 | 5.3  | 0.2  | 0.0  |
| 13.0  | 14 | 20.55 | 59.36 | 20.09 | 66.3 | 3.8  | 5.6  | 18.8 | 0.0  | 0.0  | 5.1  | 0.0  | 0.2  | 0.0  | 0.0  |
| 13.7  | 15 | 0.16  | 27.53 | 72.31 | 66.1 | 0.5  | 3.4  | 12.0 | 0.2  | 0.0  | 0.0  | 1.0  | 13.6 | 2.1  | 0.2  |
| 14.3  | 16 | 38.82 | 48.46 | 12.72 | 80.5 | 2.9  | 1.8  | 11.9 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.1  | 0.0  |
| 15.3  | 17 | 39.25 | 25.08 | 35.67 | 87.4 | 2.7  | 0.0  | 7.1  | 0.0  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 16.2  | 18 | 0.19  | 37.31 | 62.50 | 27.6 | 0.4  | 18.4 | 9.2  | 0.0  | 0.0  | 0.0  | 23.4 | 12.4 | 5.2  | 0.0  |
| 17.0  | 19 | 30.51 | 30.83 | 38.66 | 76.9 | 3.1  | 0.1  | 14.6 | 0.0  | 0.0  | 3.1  | 0.0  | 1.1  | 0.2  | 0.0  |
| 17.6  | 20 | 0.91  | 43.88 | 55.21 | 11.6 | 0.0  | 14.5 | 2.4  | 0.0  | 0.0  | 0.0  | 5.5  | 62.0 | 0.4  | 0.0  |
| 18.4  | 21 | 4.41  | 60.17 | 35.42 | 29.4 | 0.2  | 18.6 | 7.8  | 0.0  | 0.0  | 0.0  | 0.2  | 42.5 | 0.5  | 0.0  |
| 19.3  | 22 | 0.06  | 31.58 | 68.86 | 69.8 | 0.4  | 3.8  | 6.2  | 0.4  | 0.0  | 0.4  | 0.1  | 17.2 | 1.4  | 0.0  |
| 21.0  | 23 | 37.09 | 32.23 | 30.68 | 72.2 | 4.7  | 4.2  | 8.6  | 0.5  | 0.0  | 1.1  | 0.0  | 2.2  | 2.5  | 0.0  |
| 22.0  | 24 | 0.98  | 36.64 | 62.38 | 23.1 | 0.0  | 8.2  | 22.6 | 12.8 | 0.0  | 0.0  | 0.7  | 9.4  | 9.0  | 0.0  |
| 23.4  | 25 | 0.83  | 39.01 | 60.16 | 17.0 | 0.0  | 12.1 | 10.2 | 18.3 | 0.0  | 0.0  | 0.8  | 18.9 | 4.8  | 0.0  |
| 23.8  | 26 | 0.49  | 33.43 | 66.08 | 19.8 | 0.5  | 8.6  | 6.0  | 9.7  | 0.0  | 0.0  | 6.6  | 23.2 | 11.7 | 0.0  |
| 24.2  | 27 | 75.28 | 9.11  | 15.61 | 90.0 | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  |
| 25.2  | 28 | 74.81 | 21.59 | 3.60  | 20.5 | 0.2  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  |
| 28.0  | 29 | 81.53 | 7.35  | 11.12 | 72.1 | 5.6  | 0.5  | 0.2  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  |









## APPENDIX 2.—Continued.

| CORE S3 |    | DEPTH | NO    | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | PYRT | EVAP | LITH | AGG   | PLTM  | FORB  | FORP |
|---------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|------|
| 2.3     | 1  | 1.73  | 23.91 | 74.35 | 43.70 | 0.84  | 4.20  | 1.96  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.64  | 45.38 | 0.28  | 0.0  |
| 3.3     | 2  | 4.44  | 56.72 | 38.85 | 59.89 | 2.51  | 1.67  | 1.11  | 1.67 | 0.0  | 0.0  | 0.0  | 0.0  | 1.95  | 15.32 | 5.02  | 0.0  |
| 4.3     | 3  | 73.66 | 13.82 | 12.52 | 78.62 | 10.53 | 0.33  | 6.25  | 0.0  | 0.0  | 0.0  | 0.0  | 3.95 | 0.0   | 0.33  | 0.0   | 0.0  |
| 4.9     | 4  | 56.86 | 26.52 | 16.64 | 76.61 | 12.90 | 1.34  | 2.15  | 0.0  | 0.0  | 0.0  | 0.0  | 2.15 | 0.27  | 4.57  | 0.0   | 0.0  |
| 8.5     | 5  | 0.30  | 59.84 | 39.87 | 53.94 | 0.58  | 14.58 | 25.66 | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 | 0.29  | 3.50  | 0.29  | 0.0  |
| 9.8     | 6  | 2.87  | 58.57 | 38.61 | 39.75 | 0.75  | 24.00 | 15.00 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.75  | 15.50 | 0.25  | 0.0  |
| 11.1    | 7  | 4.88  | 66.71 | 28.41 | 51.25 | 2.22  | 8.59  | 22.99 | 0.0  | 0.0  | 0.0  | 0.0  | 0.83 | 1.11  | 13.02 | 0.10  | 0.0  |
| 12.7    | 8  | 0.13  | 47.56 | 52.31 | 9.32  | 0.0   | 12.54 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.29 | 65.27 | 0.32  | 0.0  |
| 14.1    | 9  | 0.08  | 32.71 | 67.21 | 31.31 | 0.0   | 10.05 | 3.04  | 1.64 | 0.0  | 0.0  | 0.0  | 0.0  | 0.47  | 39.02 | 8.41  | 0.0  |
| 15.7    | 10 | 39.42 | 42.07 | 18.51 | 85.80 | 0.91  | 0.0   | 10.88 | 0.0  | 0.0  | 0.0  | 0.0  | 0.30 | 0.30  | 0.91  | 0.30  | 0.0  |
| 17.2    | 11 | 0.31  | 35.44 | 64.25 | 56.82 | 0.85  | 8.24  | 16.48 | 0.28 | 0.0  | 0.0  | 0.0  | 0.0  | 7.67  | 4.55  | 2.56  | 0.0  |
| 19.0    | 12 | 0.20  | 32.15 | 67.64 | 8.07  | 0.0   | 21.43 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 26.09 | 40.06 | 4.22  | 0.0  |
| 20.0    | 13 | 0.15  | 27.93 | 71.92 | 8.76  | 0.0   | 4.38  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.55  | 77.32 | 2.06  | 0.0  |
| 21.6    | 14 | 0.80  | 34.32 | 64.89 | 41.84 | 0.51  | 9.95  | 5.36  | 1.02 | 0.0  | 1.02 | 0.0  | 0.0  | 8.16  | 23.98 | 5.36  | 0.0  |
| 23.5    | 15 | 0.09  | 25.36 | 74.55 | 36.29 | 0.51  | 1.78  | 0.0   | 0.25 | 0.0  | 0.25 | 0.0  | 0.0  | 32.23 | 7.11  | 16.75 | 0.0  |
| 25.0    | 16 | 0.48  | 20.98 | 78.54 | 33.50 | 0.0   | 0.51  | 0.0   | 1.52 | 0.0  | 1.52 | 0.0  | 0.0  | 0.0   | 3.55  | 18.02 | 0.0  |
| 26.8    | 18 | 70.67 | 15.68 | 13.65 | 97.11 | 2.89  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  |
| 26.1    | 17 | 42.87 | 12.15 | 44.98 | 42.22 | 1.94  | 1.11  | 5.56  | 0.0  | 0.0  | 0.0  | 0.0  | 1.11 | 3.33  | 0.0   | 0.17  | 0.0  |
| 27.1    | 19 | 86.15 | 8.44  | 5.41  | 84.17 | 8.04  | 1.76  | 5.03  | 0.0  | 0.0  | 0.0  | 0.0  | 1.01 | 0.0   | 0.0   | 0.0   | 0.0  |
| 29.0    | 20 | 90.36 | 4.19  | 5.45  | 86.79 | 4.58  | 0.81  | 6.47  | 0.0  | 0.0  | 0.0  | 0.0  | 1.35 | 0.0   | 0.0   | 0.0   | 0.0  |





## APPENDIX 2.—Continued.

## CORE S4

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 1.2   | 1  | 0.32  | 55.10 | 44.58 | 16.3 | 0.6  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 27.7 | 52.2 | 0.0  | 0.0  |
| 2.1   | 2  | 0.95  | 60.82 | 38.23 | 5.9  | 0.0  | 8.7  | 0.0  | 0.0  | 0.0  | 0.0  | 66.3 | 16.5 | 0.0  | 0.0  |
| 2.7   | 3  | 0.71  | 32.23 | 67.05 | 86.1 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 9.5  | 0.0  | 0.0  |
| 3.1   | 4  | 0.84  | 60.46 | 38.70 | 53.7 | 0.7  | 25.2 | 11.4 | 0.0  | 0.0  | 0.0  | 1.3  | 4.5  | 0.0  | 0.0  |
| 3.8   | 5  | 0.67  | 21.64 | 77.69 | 45.2 | 1.0  | 0.1  | 1.3  | 0.0  | 0.0  | 0.0  | 50.9 | 1.2  | 0.0  | 0.0  |
| 4.2   | 6  | 2.33  | 48.80 | 48.87 | 65.8 | 1.9  | 9.6  | 5.2  | 0.0  | 0.0  | 0.6  | 5.9  | 10.7 | 0.0  | 0.0  |
| 4.9   | 7  | 73.11 | 11.83 | 15.06 | 80.6 | 10.6 | 0.0  | 5.1  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.5   | 8  | 0.38  | 6.72  | 92.90 | 19.2 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 72.2 | 0.0  | 0.0  |
| 5.8   | 9  | 34.86 | 38.03 | 27.11 | 47.9 | 3.0  | 8.0  | 28.4 | 0.3  | 0.0  | 0.0  | 0.6  | 8.9  | 0.0  | 0.0  |
| 6.7   | 10 | 34.17 | 33.52 | 32.31 | 79.9 | 2.2  | 0.9  | 15.4 | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.1   | 11 | 57.26 | 21.70 | 21.04 | 79.1 | 4.9  | 2.7  | 12.9 | 0.0  | 0.0  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.8   | 12 | 0.45  | 69.70 | 29.85 | 12.7 | 0.0  | 18.5 | 0.0  | 5.6  | 0.0  | 0.0  | 3.2  | 54.7 | 1.4  | 0.0  |
| 8.0   | 13 | 0.75  | 65.74 | 33.51 | 8.3  | 0.6  | 28.5 | 0.0  | 0.6  | 0.0  | 0.0  | 2.5  | 57.3 | 0.6  | 0.0  |
| 8.9   | 14 | 0.51  | 61.00 | 38.49 | 12.1 | 0.0  | 31.7 | 3.0  | 1.2  | 0.0  | 0.0  | 3.2  | 46.1 | 0.1  | 0.0  |
| 9.2   | 15 | 1.14  | 60.90 | 37.95 | 15.0 | 0.0  | 30.7 | 0.9  | 1.1  | 0.0  | 0.0  | 1.3  | 46.0 | 0.9  | 0.0  |
| 10.1  | 16 | 0.61  | 41.20 | 58.19 | 9.0  | 0.0  | 25.4 | 0.5  | 0.8  | 0.0  | 0.0  | 14.8 | 41.6 | 0.8  | 0.0  |
| 10.8  | 17 | 3.53  | 33.88 | 62.59 | 6.9  | 0.2  | 3.0  | 0.0  | 1.3  | 0.0  | 0.0  | 10.3 | 24.5 | 11.7 | 0.0  |
| 12.2  | 18 | 1.87  | 36.35 | 61.78 | 7.0  | 0.1  | 16.2 | 1.9  | 2.2  | 0.0  | 0.0  | 4.7  | 39.0 | 4.4  | 0.0  |
| 13.7  | 19 | 0.67  | 33.19 | 66.14 | 14.5 | 0.0  | 17.1 | 0.0  | 0.2  | 0.0  | 0.0  | 3.4  | 41.7 | 0.9  | 0.0  |
| 14.0  | 20 | 1.94  | 41.34 | 56.72 | 17.8 | 0.0  | 31.8 | 3.4  | 1.1  | 0.0  | 0.0  | 0.9  | 38.9 | 0.4  | 0.0  |
| 14.3  | 21 | 78.97 | 6.12  | 14.91 | 67.3 | 7.4  | 0.0  | 1.0  | 0.0  | 0.0  | 0.0  | 1.0  | 0.0  | 0.0  | 0.0  |
| 14.7  | 22 | 80.41 | 9.06  | 10.53 | 65.0 | 7.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.4  | 0.0  |
| 14.9  | 23 | 87.01 | 8.33  | 4.66  | 75.8 | 6.9  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.2  | 0.0  |
| 15.2  | 24 | 90.97 | 4.77  | 4.26  | 80.0 | 6.0  | 0.8  | 1.1  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 16.0  | 25 | 96.10 | 1.06  | 2.84  | 86.4 | 6.6  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 18.5  | 26 | 69.99 | 16.01 | 14.00 | 73.6 | 19.4 | 1.6  | 4.1  | 0.0  | 0.0  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S5

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU  | PVRT  | EVAP  | LITH | AGG   | PLTM  | FORB  | FORP |
|-------|----|-------|-------|-------|-------|------|-------|-------|-------|-------|------|-------|-------|-------|------|
| 1.3   | 1  | 0.16  | 62.15 | 37.69 | 23.53 | 0.0  | 69.52 | 1.34  | 0.0   | 0.0   | 0.0  | 0.0   | 5.35  | 0.0   | 0.0  |
| 2.0   | 2  | 35.80 | 50.92 | 13.26 | 74.06 | 4.24 | 2.99  | 15.96 | 0.0   | 0.0   | 2.74 | 0.0   | 0.0   | 0.0   | 0.0  |
| 2.3   | 5  | 4.72  | 21.07 | 74.19 | 4.89  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 91.21 | 3.58  | 0.0   | 0.0  |
| 3.5   | 4  | 0.23  | 17.73 | 82.03 | 31.56 | 0.0  | 1.06  | 0.0   | 0.0   | 0.0   | 0.0  | 24.93 | 36.87 | 0.0   | 0.0  |
| 5.0   | 5  | 44.18 | 33.34 | 22.46 | 3.99  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 3.99  | 83.48 | 0.0   | 0.0  |
| 5.7   | 6  | 7.09  | 16.54 | 76.36 | 4.64  | 0.0  | 0.93  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 94.12 | 0.34  | 0.0  |
| 6.3   | 7  | 0.13  | 58.55 | 41.31 | 8.22  | 0.0  | 3.18  | 0.0   | 23.08 | 0.0   | 0.0  | 17.51 | 49.36 | 0.0   | 0.0  |
| 7.3   | 8  | 9.69  | 65.32 | 24.98 | 43.56 | 0.27 | 19.45 | 0.0   | 0.0   | 17.81 | 0.0  | 0.0   | 18.36 | 0.0   | 0.0  |
| 8.0   | 9  | 0.98  | 52.74 | 46.27 | 13.74 | 0.0  | 15.93 | 2.20  | 1.65  | 0.0   | 0.0  | 4.40  | 55.6  | 2.47  | 0.0  |
| 9.4   | 10 | 2.44  | 73.07 | 24.67 | 1.52  | 0.0  | 45.2  | 0.0   | 0.0   | 1.52  | 0.0  | 2.02  | 41.16 | 1.01  | 0.0  |
| 12.0  | 11 | 1.05  | 58.78 | 40.15 | 12.63 | 0.0  | 19.37 | 3.16  | 0.42  | 0.0   | 0.0  | 2.11  | 55.58 | 0.63  | 0.0  |
| 13.0  | 12 | 3.05  | 38.78 | 58.15 | 7.71  | 0.0  | 28.00 | 0.86  | 1.14  | 0.0   | 0.0  | 5.14  | 36.29 | 10.00 | 0.0  |
| 14.2  | 13 | 0.90  | 34.52 | 64.50 | 6.83  | 0.0  | 24.84 | 0.0   | 0.0   | 0.62  | 0.0  | 0.31  | 45.03 | 8.70  | 0.0  |
| 15.3  | 14 | 0.87  | 61.83 | 37.28 | 3.63  | 0.0  | 21.55 | 0.0   | 0.0   | 0.0   | 0.0  | 5.57  | 61.26 | 0.24  | 0.0  |
| 16.4  | 15 | 0.34  | 41.64 | 58.00 | 4.44  | 0.0  | 11.6  | 0.0   | 0.0   | 0.0   | 0.0  | 38.77 | 38.27 | 3.70  | 0.0  |
| 16.8  | 16 | 1.33  | 43.54 | 55.11 | 30.52 | 0.0  | 28.07 | 5.99  | 0.82  | 0.0   | 0.0  | 1.09  | 23.71 | 1.91  | 0.0  |
| 18.5  | 17 | 0.24  | 52.07 | 47.67 | 2.46  | 0.0  | 16.94 | 0.0   | 0.0   | 0.55  | 0.0  | 24.32 | 51.91 | 2.73  | 0.0  |
| 19.9  | 18 | 0.13  | 34.52 | 65.33 | 1.09  | 0.0  | 7.65  | 0.0   | 0.0   | 0.55  | 0.0  | 5.74  | 70.77 | 7.11  | 0.0  |
| 21.2  | 19 | 0.02  | 43.67 | 56.29 | 7.46  | 0.0  | 0.34  | 0.0   | 0.68  | 0.0   | 0.0  | 67.12 | 6.10  | 18.30 | 0.0  |
| 21.9  | 20 | 0.69  | 26.05 | 73.24 | 1.14  | 0.0  | 0.0   | 0.0   | 1.43  | 0.0   | 0.0  | 72.0  | 10.57 | 12.00 | 0.0  |
| 23.5  | 21 | 0.04  | 25.47 | 74.48 | 11.16 | 0.0  | 0.0   | 0.0   | 0.45  | 1.79  | 0.0  | 50.00 | 1.79  | 23.66 | 0.0  |
| 25.0  | 22 | 0.14  | 24.88 | 74.96 | 8.96  | 0.0  | 0.0   | 0.0   | 0.0   | 4.48  | 0.0  | 20.90 | 6.87  | 30.45 | 0.0  |
| 26.5  | 23 | 0.05  | 24.21 | 75.73 | 17.24 | 0.0  | 1.72  | 0.0   | 1.23  | 1.72  | 0.0  | 15.27 | 9.36  | 35.98 | 0.0  |
| 28.7  | 24 | 1.57  | 42.38 | 56.03 | 15.02 | 0.0  | 0.0   | 6.39  | 0.32  | 0.0   | 0.0  | 5.11  | 3.51  | 12.46 | 0.0  |
| 29.3  | 25 | 60.96 | 25.58 | 13.44 | 76.63 | 7.54 | 2.26  | 0.0   | 0.0   | 9.30  | 0.5  | 0.0   | 0.0   | 0.0   | 0.0  |
| 29.8  | 26 | 95.02 | 4.02  | 0.95  | 81.48 | 8.55 | 1.42  | 0.0   | 0.0   | 5.70  | 1.99 | 0.85  | 0.0   | 0.0   | 0.0  |
| 32.2  | 27 | 84.24 | 9.58  | 6.16  | 82.79 | 9.84 | 0.27  | 0.0   | 0.0   | 7.10  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  |









## APPENDIX 2.—Continued.

| CORE S7 |    | DEPTH | NO    | SAND  | SILT | CLAY | LT   | HVY  | MICA | GLAU | PVRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|---------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1.0     | 1  | 0.12  | 13.89 | 85.99 | 58.4 | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 39.0 | 0.6  | 0.0  | 0.0  |
| 1.5     | 2  | 7.30  | 10.62 | 82.08 | 18.2 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.5  | 78.6 | 1.7  | 0.0  | 0.0  |
| 2.0     | 3  | 0.50  | 21.60 | 77.90 | 51.5 | 0.0  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 43.9 | 3.5  | 0.0  | 0.0  |
| 2.7     | 4  | 1.17  | 23.66 | 75.17 | 64.9 | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 12.6 | 19.6 | 0.0  | 0.0  |
| 3.0     | 5  | 1.06  | 23.73 | 75.21 | 58.2 | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 25.0 | 10.8 | 0.0  | 0.0  |
| 3.4     | 6  | 36.45 | 34.20 | 29.35 | 84.7 | 1.4  | 1.6  | 0.0  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 5.7  | 5.2  | 0.0  | 0.0  |
| 3.5     | 7  | 83.91 | 8.25  | 7.84  | 86.6 | 3.2  | 0.3  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | 5.6  | 0.0  | 0.0  |
| 3.7     | 8  | 29.32 | 47.70 | 22.98 | 64.7 | 1.8  | 1.3  | 0.5  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 26.3 | 5.0  | 0.0  | 0.0  |
| 4.0     | 31 | 96.68 | 1.59  | 1.73  | 95.0 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 4.5     | 32 | 91.77 | 3.47  | 4.26  | 90.7 | 6.2  | 1.4  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  |
| 5.0     | 9  | 17.24 | 48.54 | 34.22 | 74.0 | 2.8  | 11.2 | 8.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.3  | 0.0  |
| 5.5     | 10 | 45.44 | 33.68 | 20.88 | 81.3 | 7.8  | 3.1  | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.2  | 0.1  | 0.0  |
| 5.8     | 11 | 1.78  | 67.24 | 30.98 | 52.7 | 1.6  | 15.1 | 28.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1  | 0.6  | 0.0  | 0.0  |
| 6.0     | 12 | 3.79  | 52.49 | 43.72 | 69.4 | 1.8  | 10.6 | 15.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 0.9  | 0.1  | 0.0  |
| 6.2     | 13 | 4.48  | 63.87 | 31.65 | 54.8 | 1.7  | 21.3 | 10.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 0.5  | 4.6  | 0.0  |
| 6.4     | 14 | 13.04 | 70.69 | 16.27 | 57.2 | 0.9  | 8.5  | 29.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.4  | 0.5  | 0.0  |
| 6.5     | 15 | 3.15  | 82.38 | 14.47 | 69.4 | 1.5  | 8.6  | 19.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 0.1  | 0.2  | 0.0  |
| 6.8     | 16 | 3.20  | 61.73 | 35.07 | 56.3 | 1.0  | 11.0 | 12.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.6 | 0.8  | 0.5  | 0.0  |
| 7.0     | 17 | 1.04  | 65.03 | 33.93 | 19.3 | 0.9  | 21.5 | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 53.2 | 3.6  | 0.1  | 0.0  |
| 7.6     | 18 | 0.37  | 86.78 | 12.85 | 12.0 | 0.0  | 0.3  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 85.9 | 1.2  | 0.0  | 0.0  |
| 7.9     | 19 | 17.03 | 43.66 | 39.31 | 54.4 | 2.7  | 3.2  | 37.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.9  | 0.0  |
| 8.5     | 20 | 41.07 | 30.27 | 28.66 | 49.0 | 1.3  | 11.2 | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 20.9 | 1.3  | 5.1  | 0.0  |
| 9.1     | 21 | 14.83 | 53.59 | 31.58 | 37.9 | 2.6  | 16.1 | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 21.7 | 0.9  | 4.9  | 0.0  |
| 10.0    | 22 | 16.16 | 45.89 | 37.95 | 54.4 | 0.9  | 14.8 | 22.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 1.2  | 0.5  | 0.0  |
| 10.3    | 23 | 89.80 | 6.57  | 3.63  | 95.6 | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0  |
| 11.0    | 33 | 97.10 | 1.49  | 1.41  | 95.1 | 3.5  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.3  | 0.0  | 0.0  |
| 13.0    | 34 | 87.73 | 7.36  | 4.91  | 90.5 | 7.0  | 0.3  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.1  | 0.0  |
| 14.3    | 35 | 96.80 | 1.41  | 1.79  | 97.0 | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 15.5    | 24 | 0.44  | 2.74  | 96.82 | 95.2 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  |
| 15.7    | 25 | 0.14  | 64.61 | 35.25 | 59.3 | 0.7  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1  | 0.4  | 0.0  |
| 16.0    | 26 | 31.72 | 2.92  | 65.36 | 41.0 | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 23.8 | 0.0  | 33.6 | 0.1  | 0.0  | 0.0  |
| 16.8    | 27 | 7.00  | 37.70 | 55.30 | 73.3 | 2.2  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  | 0.2  | 16.4 | 0.2  | 0.0  | 0.0  |
| 18.0    | 28 | 0.66  | 46.43 | 52.91 | 62.3 | 0.5  | 2.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 34.3 | 0.5  | 0.0  | 0.0  |
| 18.5    | 29 | 7.13  | 41.87 | 51.00 | 9.3  | 0.8  | 1.8  | 0.0  | 0.0  | 0.0  | 9.3  | 1.3  | 0.0  | 77.5 | 0.0  | 0.0  | 0.0  |

**CORE S7**

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|------|
| 19.0  | 30 | 2.05  | 50.53 | 47.42 | 13.9 | 3.5 | 8.6  | 0.0  | 0.0  | 0.5  | 0.0  | 70.0 | 2.0  | 0.0  | 0.0  |
| 19.5  | 36 | 96.30 | 1.44  | 2.26  | 95.6 | 4.1 | 0.0  | 0.0  | 0.0  | 0.1  | 0.1  | 0.3  | 0.0  | 0.0  | 0.0  |
| 20.5  | 37 | 98.04 | 0.81  | 1.15  | 93.9 | 5.8 | 0.0  | 0.0  | 0.0  | 0.1  | 0.1  | 0.3  | 0.0  | 0.0  | 0.0  |
| 22.0  | 38 | 97.41 | 1.00  | 1.59  | 97.0 | 2.5 | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 33.5  | 39 | 98.37 | 0.54  | 1.09  | 92.0 | 7.3 | 0.7  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0  |





## APPENDIX 2.—Continued.

[illegible]

## APPENDIX 2.—Continued.

| CORE S8 |    | DEPTH | NO    | SAND  | SILT | CLAY | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|---------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.5     | 31 | 23.64 | 47.23 | 29.13 | 72.2 | 1.2  | 13.6 | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 1.3  | 0.9  | 0.0  |
| 1.0     | 1  | 31.62 | 47.17 | 21.21 | 71.0 | 2.6  | 6.3  | 16.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 0.2  | 0.1  | 0.0  |
| 1.5     | 2  | 8.80  | 60.54 | 30.66 | 77.4 | 1.8  | 8.6  | 11.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.2  | 0.1  | 0.0  |
| 2.5     | 3  | 0.10  | 34.81 | 65.09 | 69.5 | 0.5  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 0.0  | 0.0  |
| 3.5     | 4  | 1.35  | 54.55 | 44.10 | 23.9 | 0.0  | 22.6 | 0.0  | 0.0  | 0.0  | 7.6  | 0.0  | 0.0  | 0.0  | 44.9 | 0.0  | 0.0  |
| 4.0     | 5  | 9.10  | 63.99 | 26.91 | 78.0 | 2.3  | 7.9  | 7.3  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 2.3  | 0.1  | 0.0  |
| 5.5     | 6  | 0.42  | 49.38 | 50.20 | 64.4 | 0.8  | 6.2  | 2.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 2.0  | 9.1  | 8.8  | 0.0  |
| 6.7     | 7  | 0.75  | 53.97 | 45.28 | 8.8  | 0.6  | 14.1 | 0.0  | 0.0  | 0.0  | 21.7 | 0.0  | 0.0  | 0.0  | 27.3 | 7.4  | 0.0  |
| 10.0    | 8  | 9.96  | 59.45 | 30.59 | 54.1 | 1.4  | 9.9  | 34.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 0.0  |
| 11.5    | 9  | 0.40  | 43.40 | 56.20 | 71.0 | 0.8  | 11.9 | 9.1  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.8  | 4.2  | 0.0  |
| 13.0    | 10 | 0.18  | 29.67 | 70.15 | 45.6 | 1.1  | 2.5  | 0.5  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 10.1 | 27.6 | 8.5  | 0.0  |
| 14.0    | 11 | 0.17  | 30.77 | 69.06 | 54.4 | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 4.8  | 3.2  | 16.8 | 0.0  |
| 15.5    | 12 | 0.41  | 30.71 | 68.88 | 41.1 | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.8 | 9.3  | 27.6 | 0.0  |
| 17.0    | 13 | 0.62  | 35.22 | 64.16 | 35.3 | 0.3  | 6.0  | 4.9  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.8  | 19.3 | 26.0 | 0.0  |
| 18.5    | 14 | 1.34  | 42.10 | 56.56 | 29.6 | 0.8  | 14.7 | 4.0  | 0.0  | 0.0  | 4.6  | 0.0  | 0.0  | 0.0  | 21.3 | 21.6 | 0.0  |
| 20.5    | 15 | 0.19  | 19.90 | 79.91 | 50.1 | 0.5  | 1.7  | 3.4  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 4.8  | 35.5 | 0.0  |
| 22.0    | 16 | 0.34  | 28.80 | 70.86 | 34.8 | 0.3  | 3.8  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 35.8 | 19.7 | 0.0  |
| 23.5    | 17 | 0.61  | 50.36 | 49.03 | 45.4 | 0.3  | 11.7 | 10.9 | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 4.4  | 24.7 | 0.0  |
| 25.5    | 18 | 0.55  | 36.03 | 63.42 | 57.6 | 1.0  | 3.1  | 13.3 | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 5.3  | 15.0 | 0.0  |
| 27.0    | 19 | 0.45  | 21.00 | 78.55 | 54.5 | 0.3  | 3.1  | 4.2  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 3.8  | 29.7 | 0.0  |
| 28.5    | 21 | 0.77  | 30.43 | 68.80 | 52.0 | 0.9  | 0.9  | 0.9  | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  | 1.4  | 2.6  | 27.3 | 0.0  |
| 30.0    | 20 | 0.75  | 28.94 | 70.31 | 49.4 | 0.9  | 2.1  | 4.7  | 0.0  | 0.0  | 2.1  | 0.0  | 0.0  | 0.7  | 3.2  | 26.2 | 0.0  |
| 31.0    | 22 | 1.33  | 33.52 | 65.15 | 34.8 | 1.1  | 9.9  | 7.3  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 11.7 | 23.2 | 0.0  |
| 32.5    | 23 | 0.80  | 38.75 | 60.45 | 29.7 | 0.8  | 7.4  | 6.9  | 0.0  | 0.0  | 0.4  | 0.0  | 0.0  | 1.4  | 6.3  | 34.3 | 0.0  |
| 33.5    | 24 | 0.28  | 15.38 | 84.34 | 41.5 | 1.5  | 2.6  | 0.0  | 0.0  | 0.0  | 0.4  | 0.0  | 0.0  | 16.5 | 0.5  | 28.1 | 0.0  |
| 34.5    | 25 | 0.44  | 27.11 | 72.45 | 55.7 | 2.0  | 0.4  | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 5.7  | 2.4  | 21.9 | 0.0  |
| 36.0    | 26 | 0.91  | 30.83 | 68.26 | 31.2 | 0.5  | 1.7  | 1.2  | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 15.6 | 8.7  | 15.8 | 0.0  |
| 37.5    | 27 | 0.61  | 20.10 | 79.29 | 58.5 | 0.3  | 2.5  | 1.1  | 0.0  | 0.0  | 1.1  | 0.0  | 0.0  | 2.2  | 0.1  | 30.4 | 0.0  |
| 38.0    | 28 | 2.38  | 15.96 | 81.66 | 30.4 | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 10.9 | 0.0  | 0.0  | 34.2 | 0.6  | 14.7 | 0.0  |
| 39.0    | 29 | 0.48  | 14.06 | 85.46 | 41.0 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 0.0  | 0.0  | 16.6 | 0.1  | 12.8 | 0.0  |
| 39.5    | 30 | 21.95 | 63.94 | 14.11 | 18.5 | 1.1  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 41.5 | 3.0  | 11.8 | 0.0  |
| 40.0    | 32 | 69.83 | 21.64 | 8.53  | 30.6 | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 67.1 | 0.0  | 0.0  |
| 41.0    | 33 | 93.70 | 2.42  | 3.88  | 93.0 | 6.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  |









## APPENDIX 2.—Continued.

## CORE S10

| DEPTH | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 1.0   | 1  | 99.3 | 0.1  | 0.6  | 98.3 | 1.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.0   | 2  | 98.9 | 0.3  | 0.8  | 96.9 | 2.5 | 0.1  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.0   | 3  | 99.2 | 0.1  | 0.7  | 97.4 | 2.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.0   | 4  | 99.4 | 0.1  | 0.5  | 96.1 | 3.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.8   | 5  | 31.4 | 37.3 | 31.3 | 87.7 | 2.3 | 3.6  | 0.0  | 0.0  | 0.0  | 0.0  | 6.4  | 0.0  | 0.0  | 0.0  |
| 7.5   | 6  | 7.3  | 35.3 | 57.4 | 80.5 | 1.2 | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 12.1 | 0.0  | 0.0  | 0.0  |
| 7.8   | 7  | 20.2 | 40.4 | 39.4 | 78.4 | 1.4 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 17.4 | 0.0  | 0.0  | 0.0  |
| 8.4   | 8  | 53.3 | 19.8 | 26.9 | 87.6 | 3.7 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.7  | 0.0  | 0.0  | 0.0  |
| 9.0   | 9  | 97.7 | 0.7  | 1.6  | 96.9 | 3.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10.0  | 10 | 96.6 | 1.1  | 2.3  | 82.3 | 2.5 | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.8 | 0.0  | 0.0  | 0.0  |
| 10.8  | 11 | 89.3 | 4.8  | 5.9  | 95.6 | 3.0 | 0.3  | 0.0  | 0.0  | 0.0  | 0.1  | 1.0  | 0.0  | 0.0  | 0.0  |
| 12.0  | 12 | 95.4 | 1.4  | 3.2  | 96.3 | 2.0 | 0.6  | 0.0  | 0.0  | 0.0  | 0.3  | 0.1  | 0.0  | 0.0  | 0.0  |
| 14.0  | 13 | 97.3 | 0.5  | 2.2  | 95.2 | 4.2 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  |
| 16.5  | 14 | 98.9 | 0.1  | 1.0  | 97.5 | 2.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19.0  | 15 | 97.6 | 0.5  | 1.9  | 92.1 | 4.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 3.0  | 0.0  | 0.0  | 0.0  |
| 21.0  | 16 | 98.9 | 0.3  | 0.8  | 96.0 | 3.1 | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  |
| 22.0  | 17 | 53.3 | 22.9 | 23.8 | 90.0 | 3.2 | 1.7  | 0.0  | 0.0  | 0.0  | 4.3  | 0.8  | 0.1  | 0.0  | 0.0  |









## APPENDIX 2.—Continued.

## CORE S12

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|-----|------|------|------|
| 0.5   | 1  | 99.23 | 0.15  | 0.62  | 93.2 | 5.3 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.1  | 0.3  | 0.0  |
| 2.0   | 2  | 95.64 | 1.73  | 2.63  | 89.7 | 2.2 | 2.2  | 4.2  | 0.0  | 0.0  | 0.0  | 0.0 | 0.3  | 0.9  | 0.0  |
| 4.0   | 3  | 71.07 | 20.11 | 8.82  | 90.1 | 1.4 | 3.1  | 3.8  | 0.0  | 0.0  | 0.0  | 0.0 | 0.3  | 0.3  | 0.0  |
| 5.0   | 4  | 26.95 | 53.71 | 19.34 | 81.8 | 2.2 | 7.1  | 6.6  | 0.0  | 0.0  | 0.0  | 0.0 | 0.3  | 0.3  | 0.0  |
| 5.7   | 5  | 41.26 | 40.12 | 18.62 | 86.3 | 1.7 | 2.0  | 6.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.8  | 0.3  | 0.0  |
| 7.0   | 6  | 7.66  | 62.15 | 30.19 | 75.7 | 1.0 | 10.7 | 8.7  | 0.0  | 0.0  | 0.0  | 0.0 | 1.6  | 1.2  | 0.0  |
| 8.0   | 7  | 1.89  | 42.09 | 56.02 | 36.6 | 0.4 | 21.3 | 4.7  | 0.4  | 0.0  | 0.0  | 0.0 | 29.8 | 5.1  | 0.0  |
| 8.7   | 8  | 0.38  | 52.35 | 47.27 | 15.4 | 0.0 | 35.9 | 5.8  | 9.3  | 0.0  | 0.0  | 0.0 | 20.3 | 11.0 | 0.0  |
| 9.4   | 9  | 1.50  | 64.97 | 33.53 | 37.1 | 0.6 | 40.3 | 10.4 | 1.4  | 0.0  | 0.0  | 0.0 | 4.9  | 2.6  | 0.0  |
| 11.0  | 10 | 0.18  | 35.38 | 64.44 | 9.3  | 0.0 | 2.7  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0 | 57.1 | 28.1 | 0.0  |
| 12.0  | 11 | 0.05  | 50.29 | 49.66 | 18.8 | 0.0 | 1.8  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0 | 6.5  | 68.8 | 0.0  |
| 12.8  | 12 | 0.24  | 29.23 | 70.53 | 30.5 | 0.0 | 0.7  | 0.0  | 3.7  | 0.0  | 0.0  | 0.0 | 5.6  | 46.5 | 0.0  |
| 13.0  | 13 | 1.57  | 41.27 | 57.16 | 77.3 | 0.6 | 1.4  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0 | 4.9  | 9.8  | 0.0  |
| 13.7  | 14 | 99.14 | 0.07  | 0.79  | 98.6 | 1.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 14.2  | 15 | 90.56 | 1.74  | 7.70  | 96.8 | 2.0 | 0.1  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0 | 0.0  | 0.3  | 0.0  |
| 16.0  | 16 | 95.64 | 2.00  | 2.36  | 99.6 | 0.3 | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 18.5  | 17 | 87.30 | 6.82  | 5.88  | 91.1 | 5.2 | 2.3  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0 | 0.6  | 0.1  | 0.0  |
| 19.5  | 18 | 86.20 | 8.19  | 7.61  | 96.0 | 0.7 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.7  | 0.1  | 0.0  |
| 21.0  | 19 | 87.39 | 6.55  | 6.06  | 93.3 | 3.1 | 0.8  | 0.8  | 0.0  | 0.1  | 0.0  | 0.0 | 0.6  | 0.3  | 0.0  |
| 23.0  | 20 | 92.80 | 3.32  | 3.88  | 92.7 | 5.9 | 0.3  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0 | 0.1  | 0.3  | 0.0  |
| 24.0  | 21 | 93.62 | 2.75  | 3.63  | 92.0 | 4.3 | 2.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0 | 0.1  | 0.7  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S12

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | IN SCT | OTH | WHITE | CARBON-14     |
|-------|----|------|------|------|------|------|------|--------|-----|-------|---------------|
| 0.5   | 1  | 0.0  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 2.0   | 2  | 0.0  | 0.4  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 4.0   | 3  | 0.1  | 0.7  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 5.0   | 4  | 0.2  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.1 | 0.0   |               |
| 5.7   | 5  | 0.2  | 2.3  | 0.1  | 0.1  | 0.1  | 0.0  | 0.0    | 0.0 | 0.0   | 1,500 +/- 80  |
| 7.0   | 6  | 0.0  | 0.8  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 8.0   | 7  | 0.0  | 1.3  | 0.0  | 0.4  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 8.7   | 8  | 0.0  | 0.9  | 0.1  | 1.4  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 9.4   | 9  | 0.0  | 0.6  | 0.3  | 1.7  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   | 3,550 +/- 100 |
| 11.0  | 10 | 0.0  | 0.8  | 0.3  | 0.1  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 12.0  | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 12.8  | 12 | 0.0  | 11.2 | 0.4  | 0.0  | 1.5  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 13.0  | 13 | 0.0  | 4.6  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 13.7  | 14 | 0.2  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   | 7,280 +/- 490 |
| 14.2  | 15 | 0.1  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 16.0  | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 18.5  | 17 | 0.0  | 0.4  | 0.0  | 0.0  | 0.1  | 0.0  | 0.1    | 0.0 | 0.0   |               |
| 19.5  | 18 | 0.0  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 21.0  | 19 | 0.0  | 0.9  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 23.0  | 20 | 0.1  | 0.2  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 24.0  | 21 | 0.2  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |



## APPENDIX 2.—Continued.

## CORE S13

| DEPTH | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 1.0   | 25 | 2.0  | 32.1 | 65.9 | 14.4 | 0.0 | 0.1  | 1.5  | 0.0  | 77.4 | 0.0  | 5.2  | 1.1  | 0.0  | 0.0  |
| 1.5   | 1  | 10.2 | 32.6 | 57.2 | 20.6 | 0.0 | 1.1  | 0.0  | 0.0  | 29.0 | 0.0  | 0.0  | 1.9  | 9.8  | 0.0  |
| 2.0   | 2  | 0.3  | 10.9 | 88.8 | 61.6 | 0.0 | 3.3  | 0.0  | 1.1  | 3.6  | 0.0  | 1.4  | 24.2 | 0.0  | 0.0  |
| 3.0   | 3  | 3.0  | 26.3 | 70.7 | 10.5 | 0.0 | 1.1  | 0.0  | 2.6  | 0.0  | 0.0  | 0.0  | 82.4 | 1.4  | 0.0  |
| 4.0   | 26 | 2.8  | 39.1 | 58.1 | 44.3 | 0.3 | 19.1 | 3.2  | 0.6  | 0.0  | 0.0  | 0.0  | 24.1 | 3.5  | 0.0  |
| 5.5   | 27 | 2.6  | 61.4 | 36.0 | 49.0 | 0.2 | 19.8 | 6.0  | 0.2  | 0.0  | 0.0  | 0.0  | 5.7  | 15.9 | 0.0  |
| 7.0   | 28 | 3.5  | 58.4 | 38.1 | 50.0 | 0.7 | 17.2 | 8.3  | 0.1  | 0.0  | 0.0  | 0.0  | 11.7 | 8.0  | 0.0  |
| 7.5   | 29 | 1.8  | 45.8 | 52.4 | 48.2 | 0.0 | 10.4 | 1.6  | 0.3  | 0.0  | 0.0  | 3.2  | 17.2 | 13.7 | 0.0  |
| 8.0   | 30 | 2.5  | 39.9 | 57.6 | 72.8 | 0.6 | 5.3  | 12.7 | 0.0  | 0.0  | 0.0  | 0.0  | 1.9  | 5.3  | 0.0  |
| 9.5   | 31 | 2.6  | 60.5 | 36.9 | 56.7 | 0.6 | 19.0 | 3.4  | 0.0  | 0.0  | 0.0  | 0.6  | 7.2  | 9.5  | 0.0  |
| 10.0  | 32 | 2.0  | 50.4 | 47.6 | 44.9 | 0.0 | 25.6 | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 19.1 | 7.7  | 0.0  |
| 10.5  | 33 | 0.5  | 34.7 | 64.8 | 58.7 | 0.4 | 13.2 | 5.2  | 1.2  | 0.0  | 0.0  | 1.0  | 9.2  | 9.3  | 0.0  |
| 11.0  | 34 | 0.7  | 58.1 | 41.2 | 52.8 | 0.0 | 20.3 | 2.4  | 0.2  | 0.0  | 0.0  | 0.0  | 5.8  | 15.0 | 0.0  |
| 11.5  | 35 | 1.2  | 47.8 | 51.0 | 55.3 | 0.0 | 14.8 | 7.9  | 1.6  | 0.0  | 0.0  | 0.0  | 6.1  | 10.7 | 0.0  |
| 12.5  | 36 | 1.3  | 50.2 | 48.5 | 57.5 | 0.0 | 22.1 | 3.7  | 0.0  | 0.0  | 0.0  | 1.2  | 4.8  | 8.5  | 0.0  |
| 13.0  | 37 | 0.7  | 74.8 | 24.5 | 19.7 | 0.0 | 42.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 33.1 | 2.7  | 0.0  |
| 14.5  | 4  | 0.1  | 56.2 | 43.7 | 20.6 | 0.0 | 25.2 | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 33.8 | 18.2 | 0.0  |
| 14.7  | 5  | 14.1 | 60.1 | 25.8 | 21.6 | 0.0 | 24.9 | 8.4  | 0.0  | 0.0  | 0.0  | 0.0  | 24.1 | 19.4 | 0.0  |
| 15.5  | 6  | 0.2  | 30.4 | 69.4 | 17.2 | 0.0 | 0.1  | 0.0  | 0.8  | 0.0  | 0.0  | 4.7  | 1.2  | 75.1 | 0.0  |
| 16.0  | 7  | 0.3  | 42.9 | 56.8 | 1.3  | 0.0 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 73.3 | 6.7  | 15.9 | 0.0  |
| 16.5  | 8  | 0.6  | 32.6 | 66.8 | 71.9 | 0.0 | 6.6  | 6.3  | 0.2  | 0.0  | 0.0  | 0.0  | 7.4  | 6.8  | 0.0  |
| 17.0  | 9  | 0.6  | 76.3 | 23.1 | 50.5 | 0.2 | 29.1 | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 6.3  | 0.0  |
| 18.0  | 10 | 0.1  | 30.2 | 69.7 | 21.5 | 0.0 | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 21.8 | 43.5 | 0.3  |
| 18.5  | 11 | 21.3 | 31.6 | 47.1 | 8.7  | 0.0 | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 70.0 | 15.2 | 3.6  | 0.0  |
| 19.0  | 12 | 0.2  | 43.2 | 56.6 | 23.9 | 0.4 | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 36.1 | 35.2 | 0.0  |
| 20.0  | 13 | 0.2  | 21.5 | 78.3 | 67.0 | 0.0 | 0.3  | 1.6  | 1.3  | 0.0  | 0.0  | 0.0  | 5.1  | 20.3 | 0.0  |
| 21.0  | 14 | 13.4 | 27.3 | 59.3 | 8.7  | 0.0 | 0.7  | 0.0  | 5.5  | 0.0  | 0.0  | 0.0  | 1.7  | 46.3 | 0.0  |
| 21.3  | 15 | 0.3  | 26.4 | 73.3 | 2.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 74.5 | 1.0  | 21.0 | 0.0  |
| 23.0  | 16 | 0.2  | 37.7 | 62.1 | 58.4 | 0.0 | 1.9  | 1.0  | 2.3  | 0.0  | 0.0  | 0.0  | 10.4 | 16.5 | 0.9  |
| 24.0  | 17 | 0.1  | 43.2 | 56.7 | 27.5 | 0.2 | 4.9  | 0.0  | 0.2  | 0.0  | 0.0  | 8.5  | 8.2  | 42.8 | 0.0  |
| 25.0  | 18 | 0.2  | 26.5 | 73.3 | 32.8 | 0.0 | 0.5  | 1.0  | 1.5  | 0.0  | 0.0  | 4.5  | 29.7 | 10.1 | 0.0  |
| 26.0  | 19 | 0.2  | 35.2 | 64.6 | 19.6 | 0.0 | 1.4  | 0.0  | 0.3  | 0.0  | 0.0  | 37.3 | 6.3  | 30.2 | 0.0  |
| 26.3  | 20 | 0.3  | 29.4 | 70.3 | 61.9 | 0.0 | 2.1  | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 25.7 | 0.0  |
| 27.0  | 21 | 0.2  | 26.3 | 73.5 | 56.2 | 0.0 | 2.0  | 1.5  | 1.5  | 0.0  | 0.0  | 0.0  | 2.5  | 31.8 | 0.5  |
| 27.5  | 22 | 0.2  | 30.2 | 69.6 | 21.0 | 0.2 | 0.8  | 1.0  | 0.5  | 0.0  | 0.2  | 0.8  | 2.0  | 56.9 | 0.0  |
| 30.5  | 24 | 0.2  | 27.9 | 71.9 | 52.0 | 0.4 | 5.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.4  | 12.7 | 24.4 | 0.0  |

## APPENDIX 2.—Continued.

## CORE S13

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSECT | OTH | WHITE | CARBON-14     |
|-------|----|------|------|------|------|------|------|--------|-----|-------|---------------|
| 1.0   | 25 | 0.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 1.5   | 1  | 0.0  | 10.2 | 27.1 | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 2.0   | 2  | 0.0  | 1.4  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 3.0   | 3  | 0.0  | 0.6  | 1.1  | 0.3  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 4.0   | 26 | 0.0  | 2.3  | 2.3  | 0.3  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 5.5   | 27 | 0.0  | 2.3  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   | 3,760 +/- 70  |
| 7.0   | 28 | 0.0  | 2.4  | 1.2  | 0.1  | 0.0  | 0.0  | 0.0    | 0.2 | 0.0   |               |
| 7.5   | 29 | 0.0  | 3.9  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 8.0   | 30 | 0.0  | 1.4  | 0.1  | 0.1  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   | 3,640 +/- 120 |
| 9.5   | 31 | 0.0  | 0.6  | 0.3  | 0.6  | 1.4  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 10.0  | 32 | 0.0  | 0.1  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0    | 0.1 | 0.0   |               |
| 10.5  | 33 | 0.0  | 0.4  | 0.4  | 0.2  | 0.4  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 11.0  | 34 | 0.0  | 0.0  | 0.2  | 1.0  | 2.1  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 11.5  | 35 | 0.0  | 0.3  | 0.1  | 0.1  | 3.1  | 0.0  | 0.0    | 0.0 | 0.0   | 4,050 +/- 110 |
| 12.5  | 36 | 0.0  | 1.4  | 0.1  | 0.9  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 13.0  | 37 | 0.0  | 0.0  | 0.1  | 2.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 14.5  | 4  | 0.0  | 0.3  | 0.1  | 0.8  | 0.0  | 0.0  | 0.0    | 0.3 | 0.0   |               |
| 14.7  | 5  | 0.0  | 0.3  | 0.1  | 1.1  | 0.0  | 0.0  | 0.0    | 0.1 | 0.0   |               |
| 15.5  | 6  | 0.0  | 1.2  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 16.0  | 7  | 0.0  | 0.9  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   | 3,000 +/- 110 |
| 16.5  | 8  | 0.0  | 0.7  | 0.2  | 0.1  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 17.0  | 9  | 0.0  | 0.7  | 0.1  | 2.4  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 18.0  | 10 | 0.0  | 4.3  | 0.7  | 0.3  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 18.5  | 11 | 0.0  | 0.0  | 2.2  | 0.3  | 0.0  | 0.0  | 0.0    | 0.1 | 0.0   |               |
| 19.0  | 12 | 0.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.1 | 0.0   |               |
| 20.0  | 13 | 0.0  | 4.1  | 0.3  | 0.0  | 0.1  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 21.0  | 14 | 0.0  | 12.9 | 9.0  | 0.3  | 13.9 | 0.0  | 0.0    | 0.0 | 0.0   | 5,130 +/- 90  |
| 21.3  | 15 | 0.0  | 0.3  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 23.0  | 16 | 0.0  | 4.2  | 0.0  | 0.1  | 4.5  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 24.0  | 17 | 0.0  | 7.2  | 0.2  | 0.1  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 25.0  | 18 | 0.0  | 19.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 26.0  | 19 | 0.0  | 4.8  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 26.3  | 20 | 0.0  | 1.5  | 0.1  | 0.0  | 1.9  | 0.0  | 0.0    | 0.1 | 0.0   |               |
| 27.0  | 21 | 0.0  | 1.5  | 0.1  | 0.1  | 2.5  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 27.5  | 22 | 0.0  | 11.1 | 0.2  | 0.0  | 4.8  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 30.5  | 24 | 0.0  | 2.5  | 0.0  | 0.0  | 0.4  | 0.0  | 0.0    | 0.4 | 0.0   |               |

## APPENDIX 2.—Continued.

## CORE S14

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MCA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|-----|------|------|------|------|------|------|------|------|
| 0.3   | 1  | 93.43 | 1.62  | 4.95  | 91.1 | 6.0 | 0.0 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 1.8   | 2  | 91.40 | 2.64  | 5.96  | 95.8 | 2.2 | 0.0 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3.2   | 3  | 91.88 | 2.22  | 5.90  | 95.2 | 3.9 | 0.0 | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  |
| 5.0   | 4  | 80.30 | 5.68  | 14.02 | 95.2 | 4.6 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.5   | 5  | 91.88 | 3.32  | 4.98  | 94.7 | 5.0 | 0.0 | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.2   | 6  | 19.39 | 46.14 | 34.47 | 97.0 | 0.6 | 1.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 6.5   | 7  | 78.39 | 9.83  | 11.78 | 93.6 | 4.5 | 1.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 7.0   | 8  | 1.64  | 51.52 | 46.84 | 86.9 | 1.1 | 4.7 | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | 2.5  | 0.0  | 0.0  |
| 7.5   | 9  | 32.47 | 42.19 | 25.34 | 98.0 | 1.5 | 0.3 | 0.0  | 0.0  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  |
| 8.0   | 10 | 6.63  | 57.50 | 35.87 | 96.5 | 0.9 | 2.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  |
| 8.5   | 11 | 1.58  | 32.62 | 65.80 | 67.2 | 0.3 | 0.0 | 0.0  | 0.0  | 0.1  | 0.0  | 12.1 | 20.3 | 0.0  | 0.0  |
| 9.5   | 12 | 32.32 | 25.94 | 41.74 | 40.9 | 0.7 | 0.0 | 0.0  | 0.0  | 47.9 | 0.0  | 6.4  | 4.1  | 0.0  | 0.0  |
| 10.5  | 13 | 10.51 | 17.35 | 72.14 | 75.9 | 0.9 | 0.3 | 0.0  | 0.0  | 3.8  | 0.0  | 13.8 | 5.3  | 0.0  | 0.0  |
| 11.3  | 14 | 19.79 | 13.52 | 66.69 | 86.4 | 0.9 | 0.0 | 0.0  | 0.0  | 0.6  | 0.0  | 12.1 | 0.0  | 0.0  | 0.0  |
| 12.8  | 15 | 6.88  | 26.07 | 67.05 | 93.3 | 2.9 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 2.9  | 0.0  | 0.0  |
| 13.3  | 16 | 2.11  | 18.84 | 79.05 | 98.6 | 0.7 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  |
| 14.0  | 17 | 96.00 | 1.10  | 2.90  | 97.7 | 1.6 | 0.0 | 0.0  | 0.0  | 0.1  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  |
| 15.2  | 18 | 80.30 | 6.89  | 12.81 | 98.6 | 0.9 | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  |
| 16.0  | 19 | 95.56 | 1.06  | 3.38  | 95.0 | 4.7 | 0.0 | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  |
| 17.0  | 20 | 94.98 | 1.12  | 3.90  | 96.1 | 2.9 | 0.0 | 0.0  | 0.0  | 0.1  | 0.1  | 0.6  | 0.0  | 0.0  | 0.0  |
| 20.0  | 21 | 93.60 | 1.51  | 4.89  | 97.4 | 2.4 | 0.0 | 0.0  | 0.0  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  |
| 22.0  | 22 | 95.62 | 1.34  | 3.04  | 94.5 | 4.9 | 0.0 | 0.0  | 0.0  | 0.1  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  |
| 23.0  | 23 | 94.98 | 1.57  | 3.84  | 96.8 | 2.6 | 0.0 | 0.0  | 0.0  | 0.0  | 0.1  | 0.3  | 0.0  | 0.0  | 0.0  |

**CORE S14**

[illegible]



## APPENDIX 2.—Continued.

## CORE S15

| DEPTH | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 0.5   | 1  | 99.2 | 0.1  | 0.7  | 91.7 | 7.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  |
| 2.0   | 2  | 98.7 | 0.2  | 1.1  | 94.6 | 4.6 | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.1  | 0.0  |
| 4.0   | 3  | 97.9 | 0.5  | 1.6  | 93.0 | 5.4 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  |
| 5.5   | 4  | 82.3 | 11.0 | 6.7  | 88.1 | 3.1 | 1.6  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 0.1  | 0.0  |
| 7.2   | 5  | 22.1 | 62.5 | 15.4 | 87.6 | 0.3 | 2.1  | 9.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.1  | 0.0  |
| 8.8   | 6  | 21.7 | 58.5 | 19.8 | 88.4 | 0.9 | 1.8  | 7.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.1  | 0.0  |
| 10.0  | 7  | 19.3 | 60.9 | 19.8 | 87.5 | 0.7 | 3.4  | 7.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.1  | 0.0  |
| 10.5  | 8  | 2.6  | 59.0 | 38.4 | 50.6 | 0.9 | 19.9 | 11.3 | 0.1  | 0.0  | 0.0  | 0.0  | 15.1 | 1.2  | 0.0  |
| 10.8  | 9  | 12.0 | 62.7 | 25.3 | 68.0 | 0.0 | 8.5  | 11.6 | 0.3  | 0.0  | 0.0  | 0.0  | 7.3  | 2.4  | 0.0  |
| 11.2  | 10 | 4.3  | 78.8 | 16.9 | 72.6 | 0.3 | 4.8  | 18.2 | 0.0  | 0.0  | 0.0  | 0.0  | 2.6  | 0.1  | 0.0  |
| 11.4  | 11 | 9.5  | 64.9 | 25.3 | 77.3 | 0.6 | 6.6  | 13.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.3  | 0.0  |
| 11.9  | 12 | 0.1  | 28.4 | 71.5 | 19.1 | 0.0 | 0.0  | 0.7  | 2.5  | 0.0  | 0.0  | 0.0  | 28.1 | 47.2 | 0.0  |
| 12.7  | 13 | 0.8  | 40.0 | 59.2 | 1.2  | 0.0 | 5.3  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 89.2 | 4.0  | 0.0  |
| 14.0  | 14 | 0.1  | 23.4 | 76.5 | 19.1 | 2.0 | 4.1  | 2.0  | 0.0  | 0.0  | 0.0  | 12.3 | 22.0 | 33.5 | 0.0  |
| 14.8  | 15 | 0.1  | 35.8 | 64.1 | 9.3  | 0.0 | 0.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.3  | 78.1 | 0.0  |
| 16.0  | 16 | 0.2  | 24.1 | 75.7 | 34.2 | 0.0 | 1.1  | 1.1  | 0.3  | 0.0  | 0.0  | 0.0  | 23.1 | 25.3 | 0.0  |
| 17.5  | 17 | 0.1  | 27.7 | 72.2 | 8.7  | 0.3 | 0.0  | 0.0  | 17.8 | 0.0  | 0.0  | 0.0  | 1.7  | 66.7 | 0.0  |
| 19.0  | 18 | 0.1  | 35.1 | 64.8 | 6.5  | 0.0 | 5.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 30.5 | 48.4 | 0.0  |
| 20.0  | 19 | 0.2  | 24.4 | 75.4 | 12.2 | 0.0 | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 3.5  | 0.6  | 74.2 | 0.0  |
| 21.3  | 20 | 1.5  | 28.3 | 70.2 | 58.2 | 1.7 | 0.7  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 7.2  | 26.8 | 0.0  |
| 22.5  | 21 | 3.7  | 21.9 | 74.4 | 4.1  | 0.0 | 0.4  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  | 0.7  | 41.1 | 0.0  |
| 25.0  | 22 | 0.2  | 26.3 | 73.5 | 28.7 | 0.0 | 0.0  | 1.1  | 11.7 | 0.0  | 0.0  | 0.0  | 2.5  | 30.5 | 0.1  |
| 26.0  | 23 | 0.1  | 28.3 | 71.6 | 25.7 | 0.0 | 2.2  | 0.0  | 4.5  | 0.0  | 0.0  | 0.0  | 6.7  | 17.4 | 0.0  |
| 27.5  | 24 | 0.1  | 31.7 | 68.2 | 18.0 | 0.3 | 2.6  | 0.0  | 0.6  | 0.0  | 0.0  | 1.6  | 2.0  | 40.6 | 0.0  |
| 28.6  | 25 | 0.1  | 31.4 | 68.5 | 38.4 | 0.0 | 2.5  | 9.2  | 5.3  | 0.0  | 0.0  | 0.0  | 3.9  | 14.2 | 0.0  |
| 30.0  | 26 | 0.1  | 25.3 | 74.6 | 14.4 | 0.0 | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  | 0.0  | 1.4  | 34.7 | 0.0  |
| 30.8  | 27 | 0.2  | 18.2 | 81.6 | 44.8 | 1.1 | 0.0  | 0.0  | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  | 22.8 | 0.0  |
| 31.7  | 28 | 63.4 | 3.9  | 32.7 | 79.0 | 0.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 1.2  | 0.0  |
| 32.7  | 29 | 90.2 | 3.1  | 6.7  | 92.4 | 3.7 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 34.0  | 30 | 95.3 | 2.0  | 2.7  | 91.0 | 6.5 | 0.6  | 0.6  | 0.0  | 0.1  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  |
| 35.0  | 31 | 89.0 | 2.4  | 8.6  | 95.8 | 1.2 | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S15

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14     |
|-------|----|------|------|------|------|------|------|-------|-----|-------|---------------|
| 0.5   | 1  | 0.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 2.0   | 2  | 0.1  | 0.7  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 4.0   | 3  | 0.2  | 0.7  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0   | 0.0 | 0.0   | 1,620 +/- 70  |
| 5.5   | 4  | 0.2  | 1.6  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0   | 0.1 | 0.0   |               |
| 7.2   | 5  | 0.0  | 0.1  | 0.3  | 0.1  | 0.1  | 0.0  | 0.0   | 0.0 | 0.0   | 4,370 +/- 160 |
| 8.8   | 6  | 0.0  | 0.4  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 10.0  | 7  | 0.0  | 0.1  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 10.5  | 8  | 0.0  | 0.3  | 0.3  | 0.1  | 0.1  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 10.8  | 9  | 0.4  | 1.2  | 0.1  | 0.0  | 0.1  | 0.0  | 0.0   | 0.0 | 0.0   | 2,620 +/- 80  |
| 11.2  | 10 | 0.0  | 0.9  | 0.1  | 0.3  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 11.4  | 11 | 0.0  | 0.3  | 0.6  | 0.3  | 0.1  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 11.9  | 12 | 0.0  | 1.8  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 12.7  | 13 | 0.1  | 0.6  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 14.0  | 14 | 0.0  | 4.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 14.8  | 15 | 0.0  | 2.1  | 0.7  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   | 3,870 +/- 80  |
| 16.0  | 16 | 0.0  | 6.2  | 0.7  | 0.0  | 7.8  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 17.5  | 17 | 0.0  | 2.8  | 0.7  | 0.0  | 1.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 19.0  | 18 | 0.0  | 2.4  | 1.8  | 0.1  | 4.7  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 20.0  | 19 | 0.0  | 6.0  | 0.9  | 0.0  | 1.5  | 0.0  | 0.0   | 0.0 | 0.0   | 4,170 +/- 90  |
| 21.3  | 20 | 0.0  | 1.4  | 0.1  | 0.0  | 3.4  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 22.5  | 21 | 0.0  | 24.8 | 0.7  | 0.0  | 28.1 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 25.0  | 22 | 0.0  | 1.8  | 0.3  | 0.0  | 23.1 | 0.0  | 0.0   | 0.0 | 0.0   | 6,670 +/- 90  |
| 26.0  | 23 | 0.0  | 1.9  | 0.0  | 0.0  | 41.4 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 27.5  | 24 | 0.0  | 10.6 | 0.0  | 0.0  | 23.3 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 28.6  | 25 | 0.0  | 2.5  | 0.0  | 0.1  | 23.9 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 30.0  | 26 | 0.0  | 36.3 | 0.1  | 0.0  | 7.2  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 30.8  | 27 | 0.0  | 10.3 | 0.0  | 0.3  | 12.4 | 0.0  | 0.0   | 0.0 | 0.0   | 7,420 +/- 90  |
| 31.7  | 28 | 0.4  | 12.4 | 0.4  | 0.0  | 5.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 32.7  | 29 | 0.2  | 3.0  | 0.0  | 0.0  | 0.1  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 34.0  | 30 | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 35.0  | 31 | 0.0  | 1.4  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.1 | 0.0   |               |







## APPENDIX 2.—Continued.

## CORE S17

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT | EVAP | LITH | AGG   | PLTM  | FORB  | FORP |
|-------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|------|
| 0.3   | 1  | 87.72 | 9.72  | 2.56  | 53.40 | 46.59 | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  |
| 2.0   | 2  | 77.08 | 13.95 | 8.98  | 69.08 | 26.61 | 0.1   | 1.6   | 0.0  | 0.0  | 0.0  | 0.0   | 0.26  | 0.53  | 0.0  |
| 2.7   | 3  | 14.39 | 50.33 | 35.28 | 54.45 | 3.40  | 4.18  | 1.83  | 0.26 | 0.0  | 0.0  | 1.04  | 20.68 | 2.88  | 0.0  |
| 3.6   | 4  | 65.09 | 15.94 | 18.97 | 83.85 | 5.66  | 1.13  | 5.66  | 0.0  | 0.0  | 1.70 | 0.1   | 1.70  | 0.0   | 0.0  |
| 4.5   | 5  | 36.27 | 31.61 | 35.12 | 76.36 | 5.11  | 4.15  | 11.18 | 0.0  | 0.0  | 1.28 | 0.1   | 2.88  | 0.0   | 0.0  |
| 5.7   | 6  | 39.53 | 36.51 | 23.96 | 79.64 | 4.56  | 1.52  | 13.07 | 0.0  | 0.0  | 1.22 | 0.0   | 0.0   | 0.0   | 0.0  |
| 6.5   | 7  | 24.08 | 53.47 | 22.45 | 88.45 | 2.43  | 0.91  | 7.60  | 0.0  | 0.0  | 0.61 | 0.0   | 0.0   | 0.0   | 0.0  |
| 8.5   | 8  | 23.63 | 57.13 | 19.24 | 81.99 | 3.86  | 2.25  | 9.32  | 0.0  | 0.0  | 2.57 | 0.0   | 0.0   | 0.0   | 0.0  |
| 8.8   | 9  | 1.23  | 49.32 | 49.45 | 47.73 | 0.68  | 21.59 | 9.55  | 0.68 | 0.0  | 0.0  | 0.0   | 18.86 | 0.0   | 0.0  |
| 10.2  | 10 | 9.38  | 76.89 | 13.73 | 80.94 | 3.96  | 5.20  | 7.18  | 0.0  | 0.0  | 2.48 | 0.0   | 0.25  | 0.0   | 0.0  |
| 12.0  | 11 | 0.26  | 34.26 | 65.48 | 21.11 | 0.0   | 14.07 | 4.27  | 0.50 | 0.0  | 0.0  | 0.0   | 54.77 | 3.26  | 0.0  |
| 13.0  | 12 | 1.03  | 40.36 | 58.61 | 63.29 | 0.94  | 7.29  | 16.24 | 0.24 | 0.0  | 0.0  | 8.71  | 2.35  | 0.94  | 0.0  |
| 14.8  | 13 | 20.45 | 22.01 | 57.54 | 71.65 | 1.29  | 6.70  | 18.04 | 0.0  | 0.0  | 0.0  | 0.26  | 1.29  | 0.1   | 0.0  |
| 16.2  | 14 | 0.05  | 34.28 | 65.67 | 20.73 | 0.0   | 4.57  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 71.95 | 1.52  | 0.0  |
| 18.0  | 15 | 22.39 | 55.94 | 21.67 | 82.20 | 4.85  | 1.94  | 9.71  | 0.0  | 0.0  | 0.97 | 0.0   | 0.32  | 0.0   | 0.0  |
| 19.3  | 16 | 3.70  | 51.86 | 44.44 | 65.71 | 0.95  | 12.14 | 11.67 | 0.0  | 0.0  | 0.48 | 0.0   | 8.33  | 0.24  | 0.0  |
| 21.0  | 17 | 0.25  | 37.51 | 62.24 | 31.39 | 0.0   | 11.00 | 1.29  | 0.0  | 0.0  | 0.0  | 7.44  | 47.9  | 0.65  | 0.0  |
| 22.6  | 18 | 0.30  | 41.47 | 58.53 | 17.20 | 0.0   | 43.01 | 0.0   | 0.0  | 0.0  | 0.27 | 2.96  | 34.41 | 0.27  | 0.0  |
| 24.2  | 19 | 5.32  | 26.22 | 68.46 | 30.11 | 0.0   | 9.38  | 1.14  | 0.0  | 0.0  | 0.0  | 8.52  | 30.40 | 12.50 | 0.0  |
| 25.2  | 20 | 11.70 | 48.31 | 39.99 | 45.73 | 1.26  | 12.31 | 10.55 | 0.0  | 0.0  | 0.0  | 0.50  | 9.30  | 5.03  | 0.0  |
| 27.2  | 21 | 7.03  | 55.43 | 37.54 | 44.97 | 1.85  | 8.20  | 31.48 | 0.0  | 0.0  | 0.0  | 0.53  | 3.70  | 2.91  | 0.0  |
| 28.8  | 22 | 2.02  | 53.52 | 44.46 | 40.91 | 0.91  | 15.45 | 17.88 | 5.15 | 0.0  | 0.0  | 0.91  | 6.36  | 7.88  | 0.0  |
| 30.3  | 23 | 1.13  | 41.60 | 57.27 | 18.46 | 0.0   | 19.28 | 3.63  | 0.0  | 0.0  | 0.0  | 17.08 | 24.52 | 10.19 | 0.0  |
| 32.3  | 24 | 1.15  | 86.64 | 12.21 | 52.74 | 1.44  | 7.78  | 33.72 | 0.0  | 0.0  | 0.0  | 1.15  | 0.86  | 1.15  | 0.0  |
| 33.7  | 25 | 0.17  | 31.81 | 68.02 | 4.18  | 0.0   | 3.62  | 0.0   | 0.0  | 0.0  | 0.0  | 72.42 | 19.22 | 0.56  | 0.0  |
| 35.0  | 26 | 0.23  | 33.88 | 65.89 | 40.15 | 2.49  | 2.24  | 2.99  | 0.0  | 0.0  | 0.0  | 47.13 | 4.74  | 1.75  | 0.0  |
| 36.4  | 27 | 0.14  | 29.86 | 70.02 | 12.76 | 0.59  | 3.86  | 0.0   | 0.0  | 0.0  | 0.0  | 44.27 | 22.26 | 3.86  | 0.0  |
| 37.8  | 28 | 0.15  | 26.03 | 73.82 | 8.86  | 0.28  | 2.77  | 0.0   | 0.55 | 0.0  | 0.0  | 56.79 | 6.37  | 7.48  | 0.28 |
| 39.3  | 29 | 0.10  | 24.06 | 75.84 | 18.54 | 0.0   | 2.25  | 0.0   | 7.87 | 0.0  | 0.0  | 32.58 | 7.87  | 13.64 | 0.0  |
| 40.8  | 30 | 0.92  | 28.12 | 70.96 | 27.62 | 2.23  | 3.56  | 1.11  | 2.00 | 0.0  | 0.0  | 36.75 | 2.67  | 4.01  | 0.0  |
| 42.3  | 31 | 0.16  | 17.48 | 82.35 | 52.49 | 1.10  | 2.76  | 0.0   | 0.0  | 1.6  | 0.0  | 8.84  | 6.08  | 7.73  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S17

| DEPTH | NO | SHLW | SHLF  | OSTR | SPNG | ECHN | WRMT | IN SCT | OTH  | WHITE | CARBON-14     |
|-------|----|------|-------|------|------|------|------|--------|------|-------|---------------|
| 0.3   | 1  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 2.0   | 2  | 0.2  | 0.13  | 0.53 | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 1,420 +/- 80  |
| 2.7   | 3  | 0.2  | 5.75  | 5.23 | 0.26 | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 3.6   | 4  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.28 | 0.0   |               |
| 4.5   | 5  | 0.0  | 0.0   | 0.1  | 0.1  | 0.32 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 5.7   | 6  | 0.0  | 0.1   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 6.5   | 7  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 8.5   | 8  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 4,200 +/- 120 |
| 8.8   | 9  | 0.0  | 0.0   | 0.1  | 0.68 | 0.23 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 10.2  | 10 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 12.0  | 11 | 0.0  | 0.0   | 0.50 | 1.01 | 0.25 | 0.0  | 0.0    | 0.25 | 0.0   |               |
| 13.0  | 12 | 0.0  | 0.1   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 4,480 +/- 110 |
| 14.8  | 13 | 0.0  | 0.77  | 0.1  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 16.2  | 14 | 0.0  | 0.30  | 0.30 | 0.30 | 0.0  | 0.0  | 0.0    | 0.30 | 0.0   |               |
| 18.0  | 15 | 0.0  | 0.0   | 0.1  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 19.3  | 16 | 0.0  | 0.24  | 0.0  | 0.24 | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 4,890 +/- 110 |
| 21.0  | 17 | 0.0  | 0.0   | 0.0  | 0.32 | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 22.6  | 18 | 0.0  | 0.0   | 0.0  | 1.34 | 0.27 | 0.0  | 0.0    | 0.54 | 0.0   |               |
| 24.2  | 19 | 0.0  | 6.53  | 0.0  | 0.0  | 1.42 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 25.2  | 20 | 0.0  | 5.78  | 1.76 | 0.0  | 7.79 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 27.2  | 21 | 0.0  | 2.91  | 0.26 | 0.0  | 3.17 | 0.0  | 0.0    | 0.26 | 0.0   |               |
| 28.8  | 22 | 0.0  | 1.21  | 0.0  | 0.61 | 3.64 | 0.0  | 0.0    | 0.0  | 0.0   | 7,150 +/- 110 |
| 30.3  | 23 | 0.1  | 3.58  | 0.1  | 0.83 | 3.03 | 0.0  | 0.0    | 0.0  | 0.0   | 7,980 +/- 90  |
| 32.3  | 24 | 0.0  | 0.0   | 0.0  | 0.29 | 0.86 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 33.7  | 25 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 35.0  | 26 | 0.0  | 0.25  | 0.25 | 0.0  | 1.00 | 0.0  | 0.0    | 0.0  | 0.0   | 7,850 +/- 100 |
| 36.4  | 27 | 0.3  | 8.61  | 0.30 | 0.0  | 3.26 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 37.8  | 28 | 0.0  | 6.93  | 0.10 | 0.0  | 9.70 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 39.3  | 29 | 0.28 | 10.11 | 0.84 | 0.0  | 5.62 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 40.8  | 30 | 0.44 | 13.14 | 0.0  | 0.0  | 6.46 | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 42.3  | 31 | 0.0  | 10.50 | 0.0  | 0.0  | 8.84 | 0.0  | 0.0    | 0.0  | 0.0   | 8,940 +/- 120 |

## APPENDIX 2.—Continued.

## CORE S18

| DEPTH | NO | SAND | SILT | CLAY  | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|------|------|-------|------|-----|------|------|------|------|------|------|------|------|------|
| 1.77  | 1  | 3.9  | 65.0 | 31.1  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  | 99.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.09  | 2  | 57.4 | 12.2 | 30.4  | 45.8 | 3.7 | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 0.3  | 0.0  | 0.5  | 0.0  |
| 2.38  | 3  | 2.4  | 3.9  | 93.7  | 53.4 | 0.3 | 0.0  | 0.0  | 0.9  | 29.2 | 5.1  | 0.6  | 0.0  | 0.3  | 0.0  |
| 2.69  | 4  | 77.3 | 8.5  | 14.2  | 77.4 | 3.5 | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  |
| 3.60  | 21 | 76.2 | 4.4  | 28.2  | 74.3 | 0.3 | 0.6  | 1.3  | 1.7  | 0.3  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  |
| 5.71  | 22 | 68.9 | 5.3  | 25.8  | 57.5 | 0.0 | 0.5  | 1.5  | 2.4  | 0.0  | 0.0  | 0.5  | 0.0  | 1.0  | 0.0  |
| 6.36  | 5  | 0.09 | 72.1 | 27.81 | 57.7 | 1.7 | 6.7  | 4.2  | 12.8 | 9.8  | 0.0  | 0.3  | 0.0  | 0.6  | 0.0  |
| 7.45  | 6  | 4.2  | 68.0 | 27.8  | 73.7 | 2.9 | 5.1  | 11.7 | 4.3  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8.50  | 7  | 6.0  | 61.6 | 32.4  | 77.6 | 2.4 | 1.0  | 9.2  | 0.0  | 6.4  | 0.0  | 0.5  | 0.5  | 0.5  | 0.0  |
| 9.91  | 23 | 0.5  | 71.0 | 28.5  | 64.7 | 0.8 | 2.9  | 8.2  | 11.2 | 1.2  | 0.0  | 2.5  | 0.3  | 0.8  | 0.0  |
| 11.48 | 8  | 1.4  | 60.4 | 38.2  | 77.6 | 2.3 | 14.2 | 0.0  | 2.5  | 0.0  | 0.9  | 0.0  | 0.0  | 0.9  | 0.0  |
| 12.33 | 9  | 0.1  | 28.8 | 71.1  | 52.3 | 3.4 | 0.3  | 0.0  | 1.9  | 0.0  | 0.5  | 0.0  | 0.8  | 31.0 | 0.0  |
| 14.07 | 10 | 0.1  | 36.8 | 63.1  | 10.6 | 0.6 | 0.0  | 0.0  | 2.6  | 0.0  | 0.9  | 0.3  | 0.0  | 68.0 | 0.0  |
| 15.24 | 11 | 0.5  | 41.6 | 57.9  | 18.9 | 1.4 | 4.4  | 2.7  | 1.6  | 0.0  | 0.0  | 0.0  | 4.4  | 57.8 | 0.0  |
| 16.29 | 12 | 0.1  | 34.9 | 65.0  | 3.5  | 0.8 | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.6  | 0.5  | 85.9 | 0.0  |
| 17.44 | 13 | 0.05 | 42.7 | 57.25 | 34.5 | 1.1 | 0.8  | 0.0  | 7.6  | 6.2  | 0.0  | 0.0  | 0.3  | 39.2 | 0.0  |
| 18.84 | 14 | 0.09 | 31.2 | 68.71 | 28.7 | 0.4 | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.4  | 62.7 | 0.0  |
| 20.68 | 15 | 0.2  | 52.6 | 47.2  | 5.1  | 1.6 | 0.6  | 0.0  | 30.4 | 0.0  | 0.0  | 0.0  | 0.6  | 56.0 | 0.0  |
| 22.12 | 16 | 0.3  | 10.8 | 88.0  | 33.1 | 1.7 | 0.0  | 6.7  | 0.6  | 0.0  | 0.0  | 14.7 | 0.3  | 18.5 | 0.0  |
| 23.50 | 17 | 0.2  | 44.8 | 55.0  | 50.9 | 5.2 | 0.5  | 1.5  | 2.3  | 0.0  | 0.0  | 0.8  | 1.3  | 25.7 | 0.0  |
| 25.09 | 18 | 0.1  | 29.5 | 70.4  | 9.0  | 1.2 | 0.0  | 0.0  | 3.8  | 0.0  | 0.0  | 3.5  | 2.0  | 38.9 | 0.0  |
| 26.53 | 19 | 0.3  | 18.5 | 81.4  | 26.4 | 0.0 | 0.0  | 0.0  | 4.6  | 0.0  | 0.0  | 1.7  | 0.3  | 38.8 | 0.0  |
| 26.92 | 20 | 75.9 | 5.3  | 18.8  | 89.8 | 0.3 | 0.0  | 1.5  | 5.4  | 0.0  | 0.0  | 0.3  | 0.0  | 1.5  | 0.0  |
| 27.90 | 24 | 98.4 | 0.04 | 1.56  | 98.3 | 0.3 | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  |
| 31.41 | 25 | 98.2 | 0.4  | 1.4   | 93.3 | 0.3 | 0.0  | 0.8  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.93 | 26 | 97.7 | 0.0  | 1.4   | 95.4 | 0.6 | 0.0  | 0.6  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 34.92 | 27 | 98.5 | 0.04 | 1.46  | 95.2 | 0.0 | 0.0  | 0.9  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  |
| 37.05 | 28 | 97.8 | 1.0  | 1.2   | 97.8 | 0.0 | 0.0  | 0.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 39.80 | 29 | 95.9 | 1.7  | 2.4   | 92.3 | 0.0 | 0.0  | 0.3  | 1.2  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 43.15 | 30 | 97.5 | 0.7  | 1.8   | 98.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 44.07 | 31 | 96.9 | 0.6  | 2.5   | 94.7 | 3.1 | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 48.03 | 32 | 96.9 | 0.7  | 2.4   | 98.4 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.61 | 33 | 98.1 | 0.4  | 1.5   | 95.9 | 0.9 | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S18

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14      |
|-------|----|------|------|------|------|------|------|-------|-----|-------|----------------|
| 1.77  | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.4 | 0.0   | 1,400 +/- 80   |
| 2.09  | 2  | 0.3  | 42.8 | 5.8  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 2.38  | 3  | 0.0  | 9.3  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 2.69  | 4  | 0.0  | 10.6 | 2.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 3.60  | 21 | 0.3  | 20.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 5.71  | 22 | 0.0  | 35.6 | 0.5  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 6.36  | 5  | 0.0  | 5.9  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 4,650 +/- 120  |
| 7.45  | 6  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 8.50  | 7  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 9.91  | 23 | 0.0  | 7.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 11.48 | 8  | 0.0  | 1.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 4,100 +/- 70   |
| 12.33 | 9  | 0.0  | 8.4  | 1.1  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 14.07 | 10 | 0.0  | 13.2 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.8 | 0.0   |                |
| 15.24 | 11 | 0.0  | 6.3  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0   | 0.3 | 0.0   |                |
| 16.29 | 12 | 0.0  | 2.4  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0   | 2.5 | 0.0   |                |
| 17.44 | 13 | 0.0  | 4.8  | 2.2  | 0.0  | 0.3  | 0.0  | 0.0   | 3.0 | 0.0   | 4,480 +/- 110  |
| 18.84 | 14 | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.7 | 0.0   |                |
| 20.68 | 15 | 0.3  | 3.6  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0   | 0.6 | 0.0   |                |
| 22.12 | 16 | 0.0  | 13.2 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0   | 9.7 | 0.0   |                |
| 23.50 | 17 | 0.0  | 6.5  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 5.0 | 0.0   |                |
| 25.09 | 18 | 0.0  | 34.8 | 3.5  | 0.0  | 0.0  | 0.0  | 0.0   | 3.3 | 0.0   |                |
| 26.53 | 19 | 0.0  | 26.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.5 | 0.0   | 7,400 +/- 80   |
| 26.92 | 20 | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 27.90 | 24 | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 4,040 +/- 100  |
| 31.41 | 25 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 32.93 | 26 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 34.92 | 27 | 0.0  | 2.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 37.05 | 28 | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 39.80 | 29 | 0.0  | 5.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 11,530 +/- 80  |
| 43.15 | 30 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 44.07 | 31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.6 | 0.0   |                |
| 48.03 | 32 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.3 | 0.0   |                |
| 52.61 | 33 | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.7 | 0.0   | 12,070 +/- 370 |



## APPENDIX 2.—Continued.

## CORE S19

| DEPTH  | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|--------|----|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|
| 3.3cm  | 14 | 5.2  | 20.0 | 74.8 | 81.5 | 0.0 | 0.6  | 0.0  | 2.8  | 0.0  | 9.4  | 5.4 | 0.0  | 0.0  | 0.0  |
| 14.4cm | 15 | 72.5 | 12.3 | 15.2 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 95.1cm | 16 | 87.4 | 4.6  | 8.0  | 90.9 | 0.6 | 0.0  | 0.0  | 1.8  | 0.0  | 0.0  | 0.4 | 0.0  | 0.0  | 0.0  |
| 1.45m  | 17 | 60.6 | 21.6 | 17.8 | 53.9 | 0.0 | 0.0  | 0.0  | 1.6  | 0.0  | 34.7 | 3.9 | 0.0  | 0.0  | 0.0  |
| 1.90   | 26 | 92.5 | 3.0  | 4.5  | 95.8 | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 3.35   | 27 | 91.8 | 3.1  | 5.1  | 87.7 | 3.9 | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.6  | 1.1  | 0.0  |
| 4.03   | 18 | 13.5 | 55.2 | 31.3 | 75.1 | 1.6 | 5.2  | 0.0  | 11.5 | 0.0  | 1.1  | 3.5 | 0.9  | 0.3  | 0.0  |
| 4.05   | 19 | 0.4  | 30.1 | 69.5 | 84.5 | 8.2 | 1.4  | 0.0  | 1.0  | 0.0  | 0.0  | 0.8 | 0.5  | 0.0  | 0.0  |
| 4.84   | 20 | 83.4 | 12.8 | 3.8  | 86.6 | 6.2 | 0.0  | 0.0  | 1.3  | 0.0  | 0.3  | 3.2 | 0.6  | 0.6  | 0.0  |
| 5.57   | 21 | 16.4 | 56.8 | 26.8 | 85.5 | 2.7 | 0.8  | 0.0  | 4.3  | 0.0  | 0.0  | 6.2 | 0.5  | 0.0  | 0.0  |
| 6.90   | 22 | 15.5 | 57.1 | 27.4 | 82.8 | 2.8 | 4.8  | 0.0  | 4.7  | 0.0  | 0.3  | 4.0 | 0.0  | 0.6  | 0.0  |
| 8.56   | 23 | 0.4  | 33.9 | 65.7 | 80.8 | 0.9 | 0.9  | 0.0  | 9.4  | 0.0  | 1.7  | 4.4 | 0.0  | 2.1  | 0.0  |
| 9.34   | 24 | 2.7  | 50.8 | 46.5 | 64.4 | 3.0 | 6.6  | 0.0  | 9.1  | 0.0  | 0.6  | 0.6 | 9.4  | 5.2  | 0.0  |
| 9.71   | 25 | 76.3 | 12.9 | 10.8 | 96.8 | 1.3 | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0 | 0.0  | 0.6  | 0.0  |
| 10.37  | 28 | 94.0 | 3.9  | 3.1  | 88.2 | 5.9 | 1.4  | 0.0  | 1.1  | 0.0  | 1.1  | 0.6 | 0.0  | 0.6  | 0.0  |
| 11.94  | 29 | 94.9 | 3.4  | 1.7  | 85.1 | 5.9 | 0.6  | 0.0  | 0.3  | 0.0  | 4.3  | 0.0 | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

| CORE S19 |    | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | IN SCT | OTH | WHITE | CARBON-14     |
|----------|----|------|------|------|------|------|------|--------|-----|-------|---------------|
| DEPTH    | NO |      |      |      |      |      |      |        |     |       |               |
| 3.3cm    | 14 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 14.4cm   | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 95.1cm   | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 6.3 | 0.0   |               |
| 1.45m    | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 5.9 | 0.0   |               |
| 1.90     | 26 | 0.0  | 3.6  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 3.35     | 27 | 0.0  | 2.4  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.8 | 0.0   |               |
| 4.03     | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.8 | 0.0   |               |
| 4.05     | 19 | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 1.7 | 0.0   | 3,070 +/- 110 |
| 4.84     | 20 | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 5.57     | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 6.90     | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   | 3,960 +/- 100 |
| 8.56     | 23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 9.34     | 24 | 0.0  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3 | 0.0   | 4,080 +/- 90  |
| 9.71     | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0 | 0.0   |               |
| 10.37    | 28 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.8 | 0.0   |               |
| 11.94    | 29 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 3.2 | 0.0   |               |

## APPENDIX 2.—Continued.

| CORE S20 | DEPTH  | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|----------|--------|----|-------|-------|-------|------|-----|------|------|------|------|------|-----|------|------|------|
|          | 37.5cm | 1  | 22.74 | 45.92 | 31.33 | 80.5 | 0.3 | 0.0  | 13.4 | 1.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.3  | 0.0  |
|          | 97.5cm | 2  | 12.34 | 52.52 | 35.14 | 83.5 | 0.3 | 0.8  | 10.3 | 3.1  | 0.0  | 1.4  | 0.0 | 0.3  | 0.3  | 0.0  |
|          | 1.54m  | 3  | 38.14 | 39.74 | 22.12 | 76.3 | 0.7 | 0.7  | 18.2 | 3.0  | 0.0  | 0.2  | 0.0 | 0.2  | 0.0  | 0.0  |
|          | 2.26   | 4  | 2.66  | 39.87 | 57.46 | 22.8 | 0.3 | 0.5  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 7.8  | 0.0  |
|          | 3.15   | 5  | 12.90 | 33.27 | 53.83 | 33.9 | 0.0 | 0.9  | 5.4  | 0.9  | 0.0  | 0.3  | 0.0 | 0.0  | 4.7  | 0.0  |
|          | 3.77   | 6  | 1.60  | 27.75 | 70.65 | 50.9 | 0.5 | 1.1  | 6.2  | 7.7  | 0.0  | 0.3  | 0.0 | 3.7  | 6.0  | 0.0  |
|          | 4.93   | 7  | 2.97  | 75.37 | 21.66 | 43.8 | 1.3 | 31.3 | 6.2  | 5.6  | 0.0  | 0.0  | 0.0 | 1.9  | 2.7  | 0.0  |
|          | 5.85   | 8  | 5.05  | 34.62 | 60.33 | 53.9 | 0.6 | 2.8  | 1.8  | 10.6 | 0.0  | 0.0  | 0.0 | 28.2 | 0.6  | 0.0  |
|          | 6.86   | 9  | 34.41 | 51.63 | 13.97 | 48.6 | 0.8 | 22.8 | 2.8  | 10.4 | 0.0  | 0.0  | 0.3 | 11.1 | 0.3  | 0.0  |
|          | 7.98   | 10 | 4.68  | 62.08 | 33.23 | 42.2 | 0.0 | 29.5 | 6.5  | 6.5  | 0.0  | 0.0  | 0.3 | 1.1  | 4.1  | 0.0  |
|          | 8.95   | 11 | 2.98  | 75.13 | 21.89 | 66.9 | 0.9 | 9.7  | 18.9 | 1.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.9  | 0.0  |
|          | 10.09  | 12 | 9.08  | 60.28 | 30.64 | 55.9 | 1.3 | 22.2 | 10.9 | 3.9  | 0.0  | 0.0  | 0.0 | 0.5  | 2.1  | 0.0  |
|          | 11.75  | 13 | 3.52  | 63.46 | 33.02 | 26.3 | 0.0 | 16.5 | 23.0 | 11.2 | 0.0  | 3.7  | 0.0 | 0.0  | 6.4  | 0.0  |
|          | 12.85  | 14 | 3.98  | 63.81 | 32.20 | 27.4 | 2.2 | 14.5 | 20.6 | 2.2  | 0.9  | 24.9 | 0.0 | 0.3  | 2.7  | 0.0  |
|          | 13.62  | 15 | 0.18  | 55.07 | 44.75 | 28.8 | 0.0 | 33.8 | 2.8  | 12.8 | 0.0  | 0.0  | 0.0 | 7.8  | 6.6  | 0.0  |
|          | 14.82  | 16 | 0.92  | 51.48 | 47.59 | 20.4 | 0.0 | 35.3 | 2.6  | 7.6  | 0.0  | 6.0  | 0.0 | 15.9 | 5.0  | 0.0  |
|          | 15.85  | 17 | 0.26  | 55.82 | 43.92 | 5.0  | 0.0 | 21.8 | 0.3  | 18.3 | 0.0  | 0.0  | 0.0 | 16.9 | 32.4 | 0.0  |
|          | 16.92  | 18 | 0.14  | 47.32 | 52.54 | 59.0 | 0.8 | 0.8  | 2.8  | 4.6  | 0.0  | 1.2  | 0.0 | 3.7  | 25.4 | 0.0  |
|          | 17.97  | 19 | 7.84  | 41.91 | 50.26 | 38.8 | 1.6 | 0.0  | 2.6  | 6.3  | 0.0  | 9.8  | 0.3 | 1.5  | 37.2 | 0.0  |
|          | 19.12  | 20 | 0.04  | 35.34 | 64.61 | 46.9 | 0.6 | 3.6  | 0.0  | 14.6 | 0.0  | 12.8 | 3.6 | 2.7  | 6.8  | 0.0  |
|          | 20.08  | 21 | 3.52  | 55.58 | 40.90 | 42.4 | 1.2 | 12.2 | 0.0  | 9.6  | 0.0  | 4.9  | 9.0 | 0.6  | 8.2  | 0.0  |
|          | 21.10  | 22 | 0.42  | 45.09 | 54.49 | 18.0 | 0.0 | 1.4  | 6.2  | 5.6  | 0.0  | 14.5 | 0.0 | 2.1  | 42.4 | 0.0  |
|          | 22.10  | 23 | 0.88  | 41.78 | 57.34 | 6.6  | 0.0 | 2.7  | 0.0  | 14.3 | 0.0  | 2.5  | 0.0 | 3.0  | 27.9 | 0.0  |
|          | 23.11  | 24 | 0.32  | 38.02 | 61.66 | 39.5 | 1.4 | 0.4  | 7.8  | 6.9  | 0.0  | 8.3  | 0.0 | 0.0  | 31.2 | 0.0  |
|          | 24.06  | 25 | 0.29  | 26.15 | 73.56 | 4.9  | 0.3 | 0.0  | 0.3  | 2.2  | 0.0  | 0.0  | 0.0 | 0.3  | 61.4 | 0.0  |
|          | 24.48  | 26 | 0.54  | 35.35 | 64.11 | 24.3 | 0.8 | 0.0  | 1.6  | 23.9 | 0.0  | 0.0  | 0.0 | 0.0  | 41.4 | 0.0  |
|          | 26.77  | 27 | 0.63  | 31.24 | 68.13 | 70.7 | 1.2 | 0.0  | 0.0  | 0.3  | 9.4  | 0.0  | 0.0 | 16.3 | 1.2  | 0.0  |
|          | 27.73  | 28 | 0.25  | 34.03 | 65.72 | 29.0 | 0.0 | 0.0  | 2.1  | 1.8  | 0.0  | 4.5  | 0.0 | 0.3  | 55.5 | 0.0  |
|          | 28.82  | 29 | 0.25  | 32.97 | 66.77 | 36.2 | 0.4 | 0.0  | 20.6 | 0.8  | 0.4  | 0.0  | 0.0 | 0.7  | 35.8 | 0.0  |
|          | 29.93  | 30 | 0.24  | 30.66 | 69.11 | 59.7 | 0.0 | 0.0  | 0.0  | 7.7  | 0.0  | 4.2  | 5.5 | 0.3  | 16.9 | 0.0  |
|          | 31.10  | 31 | 0.23  | 32.36 | 67.41 | 58.5 | 0.0 | 0.0  | 0.0  | 5.6  | 0.0  | 3.4  | 3.9 | 0.3  | 16.7 | 0.0  |
|          | 32.07  | 32 | 0.23  | 32.90 | 66.87 | 35.9 | 0.3 | 0.0  | 0.0  | 5.3  | 0.0  | 1.9  | 1.7 | 0.3  | 50.4 | 0.0  |
|          | 32.90  | 33 | 0.18  | 29.16 | 70.66 | 40.4 | 0.0 | 0.3  | 0.0  | 5.3  | 0.0  | 1.4  | 1.4 | 0.3  | 17.1 | 0.0  |
|          | 34.20  | 34 | 0.08  | 30.60 | 69.32 | 44.8 | 1.7 | 0.0  | 2.3  | 2.1  | 0.0  | 0.9  | 0.0 | 0.0  | 36.7 | 0.0  |





## APPENDIX 2.—Continued.

## CORE S20

| DEPTH  | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | IN SCT | OTH  | WHITE | CARBON-14     |
|--------|----|------|------|------|------|------|------|--------|------|-------|---------------|
| 37.5cm | 1  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 97.5cm | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 1.54m  | 3  | 0.0  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   |               |
| 2.26   | 4  | 0.0  | 65.5 | 2.8  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 2,890 +/- 130 |
| 3.15   | 5  | 0.0  | 49.1 | 4.5  | 0.0  | 0.3  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 3.77   | 6  | 0.0  | 21.5 | 1.8  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   |               |
| 4.93   | 7  | 0.0  | 1.3  | 5.9  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 5.85   | 8  | 0.0  | 1.2  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 6.86   | 9  | 0.0  | 2.6  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 7.98   | 10 | 0.0  | 8.2  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 8.95   | 11 | 0.0  | 0.6  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 10.09  | 12 | 0.0  | 1.6  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 11.75  | 13 | 0.0  | 12.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   | 4,190 +/- 90  |
| 12.85  | 14 | 0.0  | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.9  | 0.0   |               |
| 13.62  | 15 | 0.0  | 4.9  | 1.1  | 0.0  | 0.3  | 0.0  | 0.0    | 1.1  | 0.0   |               |
| 14.82  | 16 | 0.0  | 4.2  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0    | 0.5  | 0.0   |               |
| 15.85  | 17 | 0.0  | 1.3  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 16.92  | 18 | 0.0  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 17.97  | 19 | 0.0  | 1.6  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 19.12  | 20 | 0.0  | 8.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.4  | 0.0   |               |
| 20.08  | 21 | 0.0  | 11.0 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.6  | 0.0   |               |
| 21.10  | 22 | 0.0  | 9.7  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 1.1  | 0.0   |               |
| 22.10  | 23 | 0.0  | 42.1 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   | 5,110 +/- 110 |
| 23.11  | 24 | 0.0  | 2.3  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   |               |
| 24.06  | 25 | 0.0  | 9.6  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0    | 17.1 | 0.0   |               |
| 24.48  | 26 | 0.0  | 4.4  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0    | 3.1  | 0.0   |               |
| 26.77  | 27 | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 27.73  | 28 | 0.0  | 3.8  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0    | 1.5  | 0.0   | 7,460 +/- 80  |
| 28.82  | 29 | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 1.8  | 0.0   |               |
| 29.93  | 30 | 0.0  | 5.4  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |               |
| 31.10  | 31 | 0.0  | 10.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 1.2  | 0.0   |               |
| 32.07  | 32 | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   |               |
| 32.90  | 33 | 0.0  | 26.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 7.6  | 0.0   |               |
| 34.20  | 34 | 0.0  | 3.6  | 0.3  | 0.0  | 0.3  | 0.0  | 0.0    | 7.3  | 0.0   | 7,260 +/- 90  |



## APPENDIX 2.—Continued.

## CORE S21

| DEPTH  | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|--------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|------|
| 22.8cm | 1  | 88.65 | 4.73  | 6.62  | 75.7 | 3.5 | 1.3  | 1.6  | 1.3  | 2.4  | 1.6  | 0.0  | 0.3  | 1.6  | 0.0  |
| 1.18m  | 2  | 96.94 | 2.88  | 0.18  | 80.9 | 5.7 | 1.7  | 1.7  | 0.8  | 1.1  | 0.0  | 0.0  | 0.3  | 0.9  | 0.0  |
| 2.28   | 3  | 94.53 | 2.46  | 3.02  | 88.1 | 3.2 | 1.9  | 2.8  | 0.6  | 0.4  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  |
| 3.81   | 4  | 98.33 | 0.25  | 1.42  | 84.8 | 1.7 | 0.0  | 9.3  | 2.1  | 0.0  | 0.6  | 0.0  | 0.0  | 0.9  | 0.0  |
| 5.33   | 5  | 97.22 | 0.37  | 2.41  | 85.6 | 1.4 | 0.3  | 10.9 | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.09   | 6  | 90.11 | 3.93  | 5.95  | 86.0 | 4.8 | 1.5  | 6.2  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8.15   | 7  | 25.37 | 45.35 | 29.28 | 70.7 | 5.8 | 2.8  | 7.4  | 4.4  | 0.0  | 0.0  | 0.0  | 7.4  | 0.0  | 0.0  |
| 8.50   | 8  | 85.71 | 5.44  | 8.84  | 75.9 | 1.2 | 6.2  | 12.3 | 0.8  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8.92   | 9  | 74.39 | 16.02 | 9.58  | 67.9 | 1.1 | 15.2 | 8.3  | 0.0  | 0.6  | 2.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9.43   | 10 | 74.07 | 15.02 | 10.91 | 77.9 | 2.4 | 7.6  | 10.6 | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10.20  | 11 | 8.16  | 30.16 | 61.68 | 68.8 | 0.5 | 8.5  | 5.7  | 5.8  | 0.0  | 0.0  | 0.0  | 5.7  | 2.1  | 0.0  |
| 11.43  | 12 | 82.77 | 6.27  | 10.96 | 88.5 | 2.6 | 1.9  | 3.2  | 1.3  | 0.0  | 0.3  | 0.0  | 0.0  | 0.6  | 0.0  |
| 12.96  | 13 | 54.16 | 12.63 | 33.21 | 84.1 | 1.7 | 3.0  | 7.3  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  |
| 14.97  | 14 | 38.59 | 31.23 | 30.19 | 76.4 | 0.0 | 5.3  | 8.8  | 2.7  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 0.0  |
| 15.88  | 15 | 11.15 | 24.70 | 64.14 | 61.4 | 0.6 | 24.3 | 3.4  | 1.5  | 0.0  | 4.2  | 0.0  | 0.3  | 1.9  | 0.0  |
| 17.71  | 16 | 1.74  | 45.8  | 52.46 | 2.1  | 0.0 | 44.8 | 0.0  | 2.1  | 0.0  | 0.0  | 0.0  | 48.9 | 1.8  | 0.0  |
| 17.96  | 17 | 1.05  | 86.54 | 12.41 | 80.1 | 0.0 | 0.0  | 3.6  | 4.5  | 0.0  | 0.3  | 0.0  | 1.3  | 8.3  | 0.0  |
| 19.04  | 18 | 1.87  | 14.05 | 84.08 | 68.3 | 0.0 | 2.9  | 10.8 | 3.9  | 0.0  | 0.9  | 0.0  | 2.5  | 7.1  | 0.0  |
| 20.21  | 19 | 2.85  | 37.07 | 60.08 | 48.3 | 0.0 | 22.9 | 6.4  | 2.5  | 0.0  | 0.0  | 0.0  | 11.6 | 3.6  | 0.0  |
| 21.02  | 20 | 27.29 | 22.66 | 50.05 | 82.3 | 0.3 | 3.0  | 3.6  | 6.3  | 0.0  | 1.2  | 0.0  | 0.3  | 1.8  | 0.0  |
| 22.14  | 21 | 0.30  | 33.28 | 66.42 | 71.2 | 0.3 | 0.3  | 3.2  | 3.2  | 0.0  | 1.7  | 0.0  | 2.6  | 5.8  | 0.0  |
| 23.04  | 22 | 2.39  | 56.81 | 40.80 | 70.9 | 0.7 | 2.9  | 18.1 | 2.4  | 0.0  | 0.0  | 0.0  | 0.7  | 3.1  | 0.0  |
| 23.95  | 23 | 1.19  | 57.18 | 41.63 | 75.2 | 0.0 | 1.5  | 10.3 | 5.3  | 0.0  | 0.0  | 0.0  | 2.4  | 3.2  | 0.0  |
| 25.10  | 24 | 0.32  | 7.34  | 92.34 | 27.1 | 0.6 | 0.8  | 3.3  | 9.7  | 0.0  | 0.3  | 0.0  | 10.2 | 37.9 | 0.0  |
| 26.07  | 25 | 4.17  | 42.00 | 53.83 | 23.6 | 0.3 | 0.0  | 1.2  | 11.8 | 0.0  | 0.0  | 0.0  | 30.2 | 22.6 | 0.0  |
| 27.08  | 26 | 0.45  | 50.36 | 49.19 | 27.5 | 0.0 | 3.2  | 1.8  | 4.4  | 0.0  | 0.0  | 0.0  | 29.9 | 31.7 | 0.0  |
| 28.43  | 27 | 1.70  | 36.20 | 62.10 | 10.6 | 0.0 | 0.3  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 7.7  | 1.8  | 0.0  |
| 29.45  | 28 | 24.83 | 31.00 | 44.17 | 84.4 | 0.3 | 0.3  | 10.0 | 2.5  | 0.0  | 0.3  | 0.0  | 0.0  | 0.3  | 0.3  |
| 30.21  | 29 | 1.40  | 35.22 | 63.37 | 1.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 0.0  |
| 30.82  | 30 | 1.02  | 35.57 | 63.41 | 65.9 | 0.8 | 0.3  | 2.1  | 0.8  | 0.0  | 1.6  | 0.0  | 0.0  | 11.8 | 0.0  |
| 31.76  | 31 | 0.92  | 34.53 | 64.55 | 28.2 | 0.3 | 0.9  | 0.0  | 4.8  | 0.0  | 0.6  | 28.9 | 0.3  | 8.3  | 0.0  |
| 32.14  | 32 | 4.95  | 27.84 | 67.21 | 78.2 | 1.5 | 0.6  | 2.7  | 1.5  | 0.0  | 0.3  | 0.0  | 0.0  | 5.0  | 0.0  |
| 32.96  | 33 | 1.00  | 36.38 | 62.62 | 33.8 | 0.0 | 0.3  | 0.3  | 9.7  | 0.0  | 0.0  | 0.9  | 0.0  | 12.7 | 0.0  |
| 34.36  | 34 | 1.09  | 42.24 | 56.67 | 30.2 | 0.2 | 0.0  | 0.0  | 14.4 | 0.0  | 0.0  | 0.0  | 0.0  | 39.4 | 0.0  |





## APPENDIX 2.—Continued.

## CORE S21

| DEPTH  | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14     |
|--------|----|------|------|------|------|------|------|-------|-----|-------|---------------|
| 22.8cm | 1  | 2.4  | 5.1  | 3.2  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 3,400 +/- 140 |
| 1.18m  | 2  | 0.0  | 5.7  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 2.28   | 3  | 0.0  | 2.2  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 3.81   | 4  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 5.33   | 5  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 3,530 +/- 90  |
| 7.09   | 6  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 8.15   | 7  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 8.50   | 8  | 0.0  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 8.92   | 9  | 0.0  | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 3,870 +/- 100 |
| 9.43   | 10 | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 10.20  | 11 | 0.0  | 2.6  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 11.43  | 12 | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 12.96  | 13 | 0.0  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 4,520 +/- 110 |
| 14.97  | 14 | 0.0  | 4.7  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 15.88  | 15 | 0.0  | 2.1  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 17.71  | 16 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 17.96  | 17 | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 5,780 +/- 130 |
| 19.04  | 18 | 0.0  | 3.2  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 20.21  | 19 | 0.0  | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 21.02  | 20 | 0.0  | 0.6  | 0.3  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 22.14  | 21 | 0.0  | 0.3  | 0.0  | 0.0  | 11.4 | 0.0  | 0.0   | 0.0 | 0.0   | 5,780 +/- 130 |
| 23.04  | 22 | 0.0  | 0.5  | 0.0  | 0.0  | 0.2  | 0.0  | 0.0   | 0.5 | 0.0   |               |
| 23.95  | 23 | 0.0  | 1.2  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 25.10  | 24 | 0.0  | 2.3  | 0.3  | 0.0  | 7.7  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 26.07  | 25 | 0.0  | 6.9  | 0.6  | 0.0  | 2.7  | 0.0  | 0.0   | 0.0 | 0.0   | 5,780 +/- 130 |
| 27.08  | 26 | 0.0  | 1.2  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 28.43  | 27 | 0.0  | 0.0  | 0.0  | 0.0  | 77.9 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 29.45  | 28 | 0.0  | 1.1  | 0.0  | 0.3  | 0.0  | 0.3  | 0.0   | 0.0 | 0.0   |               |
| 30.21  | 29 | 0.0  | 3.1  | 0.6  | 0.0  | 90.1 | 0.0  | 0.0   | 0.0 | 0.0   | 5,780 +/- 130 |
| 30.82  | 30 | 0.0  | 5.6  | 0.3  | 0.3  | 10.6 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 31.76  | 31 | 0.0  | 3.8  | 0.0  | 0.0  | 23.8 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 32.14  | 32 | 0.0  | 3.2  | 0.3  | 0.0  | 6.2  | 0.6  | 0.0   | 0.0 | 0.0   |               |
| 32.96  | 33 | 0.0  | 2.4  | 0.3  | 0.0  | 39.6 | 0.0  | 0.0   | 0.0 | 0.0   | 5,780 +/- 130 |
| 34.36  | 34 | 0.0  | 2.8  | 0.0  | 0.0  | 12.8 | 0.0  | 0.0   | 0.0 | 0.0   |               |

## APPENDIX 2.—Continued.

## CORE S21

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14     |
|-------|----|------|------|------|------|------|------|-------|-----|-------|---------------|
| 35.40 | 35 | 0.0  | 2.2  | 0.3  | 0.0  | 12.8 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 36.30 | 36 | 0.0  | 1.9  | 0.3  | 0.3  | 12.7 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 37.00 | 37 | 0.0  | 10.0 | 0.6  | 0.0  | 17.9 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 37.90 | 38 | 0.0  | 1.6  | 0.0  | 0.0  | 44.6 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 38.81 | 39 | 0.0  | 0.6  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 39.42 | 40 | 0.0  | 10.1 | 0.0  | 0.0  | 7.1  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 40.12 | 41 | 0.0  | 2.8  | 0.0  | 0.3  | 23.5 | 0.0  | 0.0   | 0.0 | 0.0   | 7,140 +/- 110 |
| 40.91 | 42 | 0.0  | 3.1  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 41.84 | 43 | 0.0  | 2.8  | 0.3  | 0.0  | 0.6  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 43.02 | 44 | 0.3  | 9.8  | 0.0  | 0.0  | 2.9  | 0.0  | 0.0   | 0.6 | 0.0   |               |
| 43.82 | 45 | 0.3  | 11.4 | 0.0  | 10.2 | 12.3 | 0.0  | 0.0   | 1.6 | 0.0   |               |
| 44.47 | 46 | 1.9  | 14.1 | 0.3  | 3.8  | 19.7 | 0.0  | 0.0   | 3.5 | 0.0   |               |
| 45.38 | 47 | 1.8  | 17.4 | 2.1  | 0.0  | 6.9  | 0.0  | 0.0   | 3.6 | 0.0   |               |
| 46.03 | 48 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   | 8,190 +/- 110 |
| 46.93 | 49 | 0.3  | 5.7  | 0.3  | 0.0  | 2.5  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 47.93 | 50 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 48.00 | 51 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   | 8,140 +/- 130 |
| 49.00 | 52 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   |               |

## APPENDIX 2.—Continued.

## CORE S22

| DEPTH  | NO | SAND | SILT | CLAY  | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|--------|----|------|------|-------|------|------|------|------|------|------|------|-----|------|------|------|
| 10cm   | 1  | 0.8  | 27.0 | 72.2  | 6.6  | 5.0  | 0.0  | 7.5  | 4.6  | 0.0  | 0.5  | 0.0 | 67.9 | 2.5  | 0.0  |
| 59.7cm | 2  | 0.3  | 28.0 | 71.7  | 83.6 | 7.7  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0 | 2.1  | 0.7  | 0.0  |
| 90.7cm | 3  | 1.3  | 39.4 | 59.3  | 73.0 | 4.8  | 0.0  | 0.3  | 0.0  | 0.0  | 0.9  | 0.0 | 6.6  | 0.9  | 0.0  |
| 1.75m  | 4  | 2.4  | 32.8 | 64.8  | 23.2 | 6.2  | 0.3  | 1.6  | 0.9  | 0.0  | 0.0  | 0.0 | 52.7 | 0.9  | 0.0  |
| 2.74   | 5  | 3.3  | 32.5 | 64.2  | 97.7 | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.6  | 0.0  | 0.0  |
| 3.13   | 6  | 40.2 | 30.3 | 29.5  | 89.9 | 5.7  | 0.3  | 0.7  | 3.4  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 3.27   | 7  | 76.2 | 13.3 | 9.8   | 89.5 | 5.5  | 0.3  | 0.8  | 2.4  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 4.11   | 8  | 88.7 | 3.6  | 7.7   | 93.3 | 1.2  | 0.5  | 0.8  | 2.5  | 0.0  | 0.0  | 0.0 | 0.0  | 1.1  | 0.0  |
| 5.05   | 9  | 20.9 | 47.1 | 32.0  | 83.1 | 3.9  | 2.0  | 3.9  | 2.4  | 0.0  | 0.3  | 0.0 | 0.3  | 1.5  | 0.3  |
| 5.94   | 10 | 0.5  | 74.7 | 24.8  | 69.4 | 2.4  | 1.3  | 1.5  | 6.9  | 0.0  | 0.7  | 0.0 | 3.0  | 0.9  | 0.0  |
| 6.93   | 11 | 8.0  | 55.4 | 36.6  | 14.5 | 12.5 | 18.5 | 0.0  | 0.0  | 0.4  | 0.0  | 0.0 | 6.3  | 18.5 | 0.4  |
| 8.28   | 12 | 31.9 | 20.7 | 47.4  | 93.5 | 1.6  | 0.0  | 0.0  | 2.2  | 0.0  | 0.4  | 0.0 | 0.0  | 1.3  | 0.0  |
| 8.34   | 13 | 0.2  | 12.9 | 86.9  | 12.9 | 0.0  | 0.0  | 0.3  | 2.9  | 0.0  | 0.0  | 0.0 | 0.0  | 80.0 | 0.0  |
| 9.41   | 14 | 15.7 | 41.7 | 42.6  | 96.3 | 1.7  | 0.0  | 0.0  | 1.7  | 0.0  | 0.0  | 0.0 | 0.0  | 0.3  | 0.0  |
| 10.00  | 15 | 0.2  | 38.7 | 61.1  | 25.5 | 0.7  | 3.9  | 30.6 | 12.9 | 0.0  | 0.0  | 0.0 | 1.2  | 9.2  | 0.0  |
| 11.52  | 16 | 6.6  | 29.2 | 64.2  | 87.2 | 1.7  | 0.0  | 0.3  | 0.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.9  | 0.0  |
| 12.58  | 17 | 2.1  | 23.6 | 74.3  | 34.4 | 1.9  | 0.3  | 0.3  | 0.6  | 0.0  | 0.0  | 0.0 | 0.0  | 37.2 | 0.0  |
| 14.00  | 18 | 1.4  | 34.7 | 63.9  | 29.6 | 6.3  | 0.9  | 10.8 | 5.8  | 0.0  | 0.0  | 0.0 | 0.3  | 31.9 | 0.0  |
| 15.66  | 19 | 0.2  | 31.4 | 68.4  | 17.5 | 6.8  | 1.9  | 6.3  | 0.6  | 0.0  | 0.0  | 0.0 | 5.8  | 26.2 | 0.0  |
| 17.16  | 20 | 0.06 | 58.4 | 41.54 | 28.9 | 1.9  | 3.2  | 4.0  | 13.9 | 0.0  | 0.3  | 0.0 | 4.7  | 21.7 | 0.0  |
| 18.68  | 21 | 0.1  | 25.3 | 74.6  | 20.4 | 3.9  | 0.0  | 16.9 | 3.2  | 0.0  | 0.0  | 0.0 | 0.0  | 41.1 | 0.0  |
| 20.51  | 22 | 0.2  | 27.6 | 72.2  | 21.2 | 0.3  | 0.0  | 1.4  | 0.6  | 0.0  | 0.0  | 0.0 | 0.0  | 32.8 | 0.0  |
| 21.78  | 23 | 0.8  | 15.1 | 84.1  | 76.1 | 1.3  | 0.3  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0 | 1.6  | 3.7  | 0.0  |
| 22.28  | 24 | 80.9 | 9.8  | 9.3   | 20.4 | 1.9  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 1.5  | 0.0  |
| 22.97  | 25 | 89.8 | 1.8  | 8.4   | 88.7 | 2.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 23.86  | 26 | 90.3 | 2.9  | 6.8   | 96.1 | 1.5  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 25.16  | 27 | 89.7 | 2.6  | 8.3   | 92.9 | 2.5  | 0.0  | 0.6  | 1.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.6  | 0.0  |
| 26.68  | 28 | 93.2 | 1.4  | 5.4   | 95.6 | 3.8  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 28.21  | 29 | 90.0 | 2.5  | 7.5   | 95.9 | 1.9  | 0.0  | 0.4  | 0.0  | 0.0  | 0.4  | 0.0 | 0.0  | 0.0  | 0.0  |
| 29.73  | 30 | 91.6 | 2.4  | 6.0   | 94.2 | 2.5  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 30.72  | 31 | 89.2 | 3.8  | 7.8   | 90.9 | 3.9  | 0.0  | 0.0  | 5.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 31.17  | 36 | 33.9 | 45.2 | 20.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 31.38  | 37 | 65.3 | 5.5  | 29.2  | 97.7 | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 31.75  | 38 | 63.4 | 28.1 | 8.5   | 88.4 | 1.4  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |

| DEPTH | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|-------|----|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|
| 32.17 | 32 | 87.7 | 3.9  | 10.4 | 95.6 | 1.9 | 0.0  | 0.0  | 0.3  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 33.55 | 33 | 87.5 | 4.9  | 8.0  | 96.4 | 0.3 | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 34.77 | 34 | 90.5 | 2.0  | 7.5  | 99.1 | 0.3 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 35.99 | 35 | 92.5 | 1.5  | 6.0  | 98.8 | 0.3 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 36.92 | 39 | 903  | 27.2 | 63.7 | 97.7 | 0.9 | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 37.10 | 40 | 2.7  | 5.9  | 91.4 | 95.6 | 0.6 | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.3  | 0.0  |



## APPENDIX 2.—Continued.

| CORE S22 |    |      |      |      |      |      |      |        |      |       |                               |
|----------|----|------|------|------|------|------|------|--------|------|-------|-------------------------------|
| DEPTH    | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | IN SCT | OTH  | WHITE | CARBON-14                     |
| 10cm     | 1  | 0.0  | 5.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 3,630 +/- 110                 |
| 59.7cm   | 2  | 0.0  | 4.3  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 90.7cm   | 3  | 0.0  | 10.6 | 0.9  | 0.0  | 0.0  | 0.0  | 0.0    | 2.0  | 0.0   |                               |
| 1.75m    | 4  | 0.0  | 12.9 | 1.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 2.74     | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 3,770 +/- 90                  |
| 3.13     | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 3.27     | 7  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 4.11     | 8  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   |                               |
| 5.05     | 9  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.5  | 0.0   | 4,670 +/- 80                  |
| 5.94     | 10 | 0.0  | 13.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.9  | 0.0   |                               |
| 6.93     | 11 | 0.0  | 26.9 | 1.1  | 0.0  | 0.0  | 0.0  | 0.0    | 0.9  | 0.0   |                               |
| 8.28     | 12 | 0.0  | 0.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.6  | 0.0   |                               |
| 8.34     | 13 | 0.0  | 2.4  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 6,630 +/- 150                 |
| 9.41     | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 10.00    | 15 | 0.0  | 13.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 2.4  | 0.0   |                               |
| 11.52    | 16 | 0.3  | 7.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.9  | 0.0   |                               |
| 12.58    | 17 | 0.0  | 24.2 | 0.8  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   | 7,910 +/- 150<br>7,540 +/- 70 |
| 14.00    | 18 | 0.0  | 13.5 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   |                               |
| 15.66    | 19 | 0.3  | 30.3 | 2.4  | 0.0  | 0.0  | 0.0  | 0.0    | 1.9  | 0.0   |                               |
| 17.16    | 20 | 0.0  | 17.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 4.0  | 0.0   |                               |
| 18.68    | 21 | 0.0  | 11.9 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 2.3  | 0.0   | 32,920 +/- 930                |
| 20.51    | 22 | 0.0  | 41.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 2.7  | 0.0   |                               |
| 21.78    | 23 | 0.0  | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 11.0 | 0.0   |                               |
| 22.28    | 24 | 0.0  | 72.4 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0    | 1.4  | 0.0   |                               |
| 22.97    | 25 | 1.7  | 7.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 3,770 +/- 90                  |
| 23.86    | 26 | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 25.16    | 27 | 0.0  | 1.5  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 26.68    | 28 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 28.21    | 29 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.4  | 0.0   | 3,770 +/- 90                  |
| 29.73    | 30 | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 30.72    | 31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 31.17    | 36 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   |                               |
| 31.38    | 37 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.0  | 0.0   | 32,920 +/- 930                |
| 31.75    | 38 | 0.0  | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0    | 0.3  | 0.0   |                               |

## APPENDIX 2.—Continued.

## CORE S22

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14       |
|-------|----|------|------|------|------|------|------|-------|-----|-------|-----------------|
| 32.17 | 32 | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                 |
| 33.55 | 33 | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.3 | 0.0   |                 |
| 34.77 | 34 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                 |
| 35.99 | 35 | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                 |
| 36.92 | 39 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                 |
| 37.10 | 40 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.3 | 0.0   | 24,320 +/- 2030 |

## APPENDIX 2.—Continued.

| CORE S23 |        | DEPTH | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|----------|--------|-------|----|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|
|          | 41.6cm |       | 1  | 6.0  | 21.5 | 72.5 | 89.4 | 0.9 | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
|          | 1.01m  |       | 2  | 44.0 | 13.0 | 43.0 | 67.5 | 0.5 | 0.0  | 0.0  | 1.4  | 0.0  | 30.6 | 0.0 | 0.0  | 0.0  | 0.0  |
|          | 1.46   |       | 3  | 87.7 | 3.0  | 9.3  | 91.6 | 1.2 | 0.0  | 0.0  | 4.8  | 0.0  | 2.4  | 0.0 | 0.0  | 0.0  | 0.0  |
|          | 2.05   |       | 4  | 98.7 | 0.4  | 0.9  | 96.1 | 0.3 | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
|          | 4.72   |       | 5  | 96.5 | 1.5  | 2.0  | 94.4 | 0.0 | 0.0  | 0.0  | 5.3  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
|          | 7.47   |       | 6  | 97.7 | 0.7  | 1.6  | 98.4 | 0.0 | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
|          | 8.54   |       | 7  | 97.6 | 0.6  | 1.8  | 93.2 | 0.9 | 0.0  | 0.0  | 5.9  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
|          | 12.96  |       | 8  | 86.9 | 3.2  | 9.9  | 92.9 | 4.6 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |





## APPENDIX 2.—Continued.

## CORE S24

| DEPTH  | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|--------|----|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|
| 36.3cm | 9  | 12.9 | 40.8 | 46.3 | 99.7 | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 84.8cm | 10 | 47.8 | 13.4 | 38.8 | 97.3 | 0.6 | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 1.37m  | 46 | 97.6 | 1.0  | 1.4  | 97.5 | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 4.11   | 47 | 98.5 | 0.5  | 1.0  | 99.7 | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 6.86   | 48 | 94.6 | 2.7  | 2.7  | 99.4 | 0.0 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 7.39   | 11 | 0.6  | 42.2 | 57.2 | 98.1 | 0.0 | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.3 | 0.0  | 0.0  | 0.0  |
| 8.93   | 12 | 0.4  | 22.0 | 77.6 | 89.0 | 3.6 | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  | 1.6 | 0.0  | 0.0  | 0.0  |
| 10.25  | 13 | 3.8  | 34.4 | 61.8 | 87.6 | 1.4 | 0.0  | 0.0  | 0.3  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S25

| DEPTH  | NO | SAND  | SILT  | CLAY  | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|--------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 75.5cm | 1  | 0.23  | 31.15 | 68.62 | 55.6 | 2.0  | 0.0  | 0.0  | 7.2  | 0.0  | 16.6 | 18.6 | 0.0  | 0.0  | 0.0  |
| 2.24m  | 2  | 0.32  | 52.23 | 47.46 | 11.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 88.4 | 0.0  | 0.0  | 0.0  | 0.0  |
| 3.16   | 3  | 23.40 | 42.75 | 33.85 | 54.5 | 1.5  | 4.3  | 0.0  | 7.4  | 0.0  | 0.0  | 0.0  | 32.3 | 0.0  | 0.0  |
| 3.49   | 4  | 34.15 | 40.80 | 25.05 | 76.7 | 4.5  | 11.9 | 3.4  | 1.3  | 0.0  | 0.5  | 0.0  | 0.26 | 0.0  | 0.0  |
| 3.77   | 5  | 0.62  | 46.78 | 52.59 | 86.3 | 3.6  | 0.0  | 0.0  | 0.0  | 0.0  | 5.9  | 2.3  | 0.0  | 0.0  | 0.0  |
| 5.05   | 6  | 1.35  | 68.32 | 30.33 | 77.9 | 1.1  | 4.6  | 3.0  | 4.3  | 0.0  | 0.3  | 0.0  | 8.3  | 0.0  | 0.0  |
| 5.55   | 7  | 7.44  | 61.46 | 31.09 | 56.5 | 0.3  | 10.4 | 13.1 | 6.6  | 0.0  | 0.0  | 0.0  | 1.9  | 2.6  | 0.0  |
| 6.47   | 8  | 14.07 | 68.91 | 17.02 | 62.4 | 7.4  | 0.0  | 19.5 | 1.2  | 0.0  | 0.0  | 0.0  | 2.1  | 1.8  | 0.0  |
| 6.92   | 9  | 16.29 | 51.70 | 32.00 | 42.7 | 0.9  | 14.0 | 29.3 | 7.9  | 0.0  | 0.61 | 0.0  | 1.5  | 0.6  | 0.0  |
| 7.57   | 10 | 5.33  | 64.95 | 29.72 | 36.5 | 0.33 | 16.1 | 20.4 | 16.8 | 0.0  | 0.66 | 0.0  | 0.66 | 1.33 | 0.0  |
| 8.51   | 11 | 0.54  | 63.96 | 35.50 | 50.9 | 0.6  | 6.1  | 21.4 | 9.2  | 0.0  | 0.0  | 0.0  | 2.6  | 4.0  | 0.0  |
| 9.56   | 12 | 3.22  | 57.24 | 39.54 | 6.3  | 0.26 | 13.2 | 1.8  | 11.6 | 0.0  | 26.8 | 0.0  | 2.63 | 0.79 | 0.0  |
| 10.49  | 13 | 0.26  | 43.55 | 56.20 | 55.3 | 0.0  | 0.0  | 0.0  | 7.6  | 0.0  | 0.0  | 0.0  | 1.5  | 20.6 | 0.0  |
| 11.49  | 14 | 0.73  | 29.74 | 69.52 | 73.7 | 0.7  | 0.0  | 2.5  | 16.2 | 0.0  | 0.0  | 0.0  | 0.0  | 3.9  | 0.0  |
| 12.02  | 15 | 73.52 | 7.92  | 18.55 | 95.8 | 0.3  | 0.0  | 0.0  | 0.6  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13.37  | 16 | 95.03 | 1.21  | 3.77  | 94.2 | 0.3  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 14.12  | 17 | 16.60 | 17.06 | 66.34 | 65.3 | 2.8  | 0.0  | 0.0  | 4.1  | 0.0  | 0.0  | 0.0  | 0.0  | 17.2 | 0.0  |

## APPENDIX 2.—Continued.

## CORE S25

| DEPTH  | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14     |
|--------|----|------|------|------|------|------|------|-------|-----|-------|---------------|
| 75.5cm | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 2.24m  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 3.16   | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 3.49   | 4  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 3,860 +/- 90  |
| 3.77   | 5  | 0.0  | 1.95 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 5.05   | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.5 | 0.0   |               |
| 5.55   | 7  | 0.0  | 8.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 6.47   | 8  | 0.0  | 3.8  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 6.92   | 9  | 0.0  | 2.13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.3 | 0.0   |               |
| 7.57   | 10 | 0.0  | 6.9  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 6,630 +/- 110 |
| 8.51   | 11 | 0.0  | 2.0  | 2.9  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 9.56   | 12 | 0.0  | 7.1  | 29.2 | 0.0  | 0.26 | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 10.49  | 13 | 0.0  | 13.8 | 0.0  | 0.0  | 0.6  | 0.0  | 0.0   | 0.6 | 0.0   |               |
| 11.49  | 14 | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 12.02  | 15 | 0.6  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 6,760 +/- 100 |
| 13.37  | 16 | 0.0  | 4.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 14.12  | 17 | 0.3  | 8.8  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0   | 0.6 | 0.0   | 6,210 +/- 100 |









## APPENDIX 2.—Continued.

## CORE S27

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14     |
|-------|----|------|------|------|------|------|------|-------|-----|-------|---------------|
| 99cm  | 1  | 0.0  | 2.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0   | 4.0 | 0.0   |               |
| 1.16m | 2  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.6 | 0.0   |               |
| 2.41  | 3  | 0.0  | 3.3  | 4.9  | 0.0  | 0.0  | 0.0  | 0.0   | 1.2 | 0.0   | 3,160 +/- 120 |
| 2.69  | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 6.3 | 0.0   |               |
| 3.45  | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 4.24  | 6  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 4.99  | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 5.72  | 8  | 0.3  | 2.2  | 19.6 | 0.0  | 0.0  | 0.0  | 0.0   | 1.2 | 0.0   | 2,520 +/- 90  |
| 6.50  | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 2,980 +/- 70  |
| 7.01  | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 7.42  | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 8.12  | 12 | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 8.47  | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 9.03  | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 3,330 +/- 90  |
| 9.24  | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 9.41  | 16 | 0.0  | 1.1  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.3 | 0.0   |               |
| 10.52 | 17 | 0.0  | 7.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   | 6,560 +/- 90  |
| 11.43 | 18 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 12.96 | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |
| 14.50 | 20 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |               |



## APPENDIX 2.—Continued.

| CORE S28 |       | DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|----------|-------|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|------|
|          | 1.11m |       | 1  | 99.22 | 0.18  | 0.61  | 97.8 | 2.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 2.28  |       | 2  | 99.07 | 0.02  | 0.91  | 98.4 | 1.3 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 3.81  |       | 3  | 69.91 | 3.92  | 26.17 | 97.2 | 0.3 | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 4.78  |       | 4  | 59.64 | 27.87 | 12.48 | 65.7 | 0.0 | 0.0  | 0.0  | 0.0  | 8.8  | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  |
|          | 5.02  |       | 5  | 16.50 | 22.21 | 61.28 | 91.6 | 0.3 | 0.0  | 1.2  | 0.0  | 0.0  | 6.9  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 5.64  |       | 6  | 96.48 | 0.82  | 2.70  | 85.6 | 1.1 | 0.0  | 10.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 8.38  |       | 7  | 96.20 | 1.07  | 2.73  | 88.5 | 0.3 | 0.9  | 6.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  |
|          | 9.91  |       | 8  | 67.00 | 17.09 | 15.91 | 77.1 | 0.6 | 0.9  | 16.1 | 0.6  | 0.0  | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  |
|          | 11.30 |       | 9  | 79.19 | 8.57  | 12.23 | 81.1 | 0.9 | 0.3  | 9.8  | 0.0  | 0.0  | 0.0  | 0.0  | 5.2  | 0.0  | 0.0  |
|          | 12.78 |       | 10 | 71.97 | 14.32 | 13.71 | 75.9 | 0.6 | 0.9  | 22.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 14.04 |       | 11 | 4.05  | 37.64 | 58.31 | 59.1 | 0.8 | 6.8  | 0.0  | 1.3  | 0.0  | 0.0  | 21.3 | 10.4 | 0.3  | 0.0  |
|          | 15.96 |       | 12 | 39.77 | 19.21 | 41.02 | 76.2 | 0.8 | 2.4  | 15.5 | 0.0  | 0.0  | 0.0  | 0.0  | 2.4  | 0.6  | 0.0  |
|          | 16.93 |       | 13 | 77.94 | 9.44  | 12.62 | 90.4 | 3.4 | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.8  | 0.0  |
|          | 18.10 |       | 14 | 1.82  | 34.26 | 63.92 | 19.3 | 0.3 | 6.7  | 0.0  | 13.5 | 0.0  | 0.0  | 7.3  | 7.9  | 6.7  | 0.0  |
|          | 18.85 |       | 15 | 3.67  | 42.58 | 53.75 | 16.8 | 0.0 | 0.6  | 0.0  | 3.3  | 0.0  | 47.2 | 0.6  | 2.7  | 20.8 | 0.0  |
|          | 19.38 |       | 16 | 1.24  | 61.91 | 36.86 | 21.1 | 0.0 | 19.5 | 10.4 | 13.6 | 0.0  | 22.2 | 0.0  | 0.6  | 8.0  | 0.0  |
|          | 20.45 |       | 17 | 0.24  | 43.39 | 56.36 | 45.9 | 0.3 | 0.7  | 6.3  | 4.5  | 0.0  | 0.0  | 0.0  | 1.3  | 34.6 | 0.0  |
|          | 21.92 |       | 18 | 0.06  | 36.69 | 63.25 | 65.3 | 0.0 | 0.0  | 4.8  | 4.4  | 0.0  | 0.0  | 0.0  | 0.6  | 3.2  | 0.0  |
|          | 23.63 |       | 19 | 8.46  | 32.60 | 58.93 | 42.2 | 0.0 | 0.0  | 0.0  | 12.1 | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  | 0.0  |
|          | 23.74 |       | 20 | 78.02 | 9.57  | 12.41 | 68.0 | 0.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  |
|          | 24.54 |       | 21 | 94.55 | 1.99  | 3.46  | 96.1 | 0.3 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 1.5  | 0.3  | 0.0  | 0.0  |
|          | 26.07 |       | 22 | 91.11 | 4.39  | 4.51  | 92.1 | 0.6 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 5.5  | 0.0  | 0.0  | 0.0  |
|          | 27.27 |       | 23 | 78.13 | 6.77  | 15.10 | 96.3 | 0.9 | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 27.97 |       | 24 | 1.01  | 45.34 | 53.65 | 55.1 | 0.0 | 6.4  | 0.0  | 0.0  | 0.0  | 21.3 | 0.0  | 4.4  | 8.8  | 0.0  |
|          | 28.43 |       | 25 | 12.35 | 30.53 | 57.12 | 82.2 | 3.2 | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.3  | 1.8  | 0.0  | 0.0  |
|          | 28.63 |       | 26 | 60.66 | 22.57 | 16.77 | 91.6 | 3.3 | 1.2  | 0.6  | 1.8  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 31.11 |       | 27 | 92.61 | 2.68  | 4.71  | 94.4 | 1.6 | 0.6  | 0.0  | 1.9  | 0.0  | 0.6  | 0.6  | 0.0  | 0.0  | 0.0  |
|          | 35.20 |       | 28 | 5.53  | 21.74 | 72.73 | 71.3 | 0.3 | 0.0  | 0.0  | 0.6  | 2.3  | 25.5 | 0.0  | 0.0  | 0.0  | 0.0  |
|          | 35.99 |       | 29 | 88.83 | 4.65  | 6.52  | 90.9 | 3.3 | 0.3  | 0.3  | 4.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S28

| DEPTH | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH  | WHITE | CARBON-14     |
|-------|----|------|------|------|------|------|------|-------|------|-------|---------------|
| 1.11m | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 2.28  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 3.81  | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 4.78  | 4  | 0.3  | 21.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 5.02  | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 4,500 +/- 120 |
| 5.64  | 6  | 0.0  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 8.38  | 7  | 0.0  | 3.2  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 9.91  | 8  | 0.0  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 11.30 | 9  | 0.0  | 2.4  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 12.78 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 14.04 | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 15.96 | 12 | 0.0  | 2.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 16.93 | 13 | 0.0  | 1.1  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 18.10 | 14 | 0.0  | 38.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 8,640 +/- 110 |
| 18.85 | 15 | 0.0  | 6.4  | 1.0  | 0.0  | 0.6  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 19.38 | 16 | 0.0  | 3.5  | 0.8  | 0.3  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 20.45 | 17 | 0.0  | 4.7  | 0.7  | 0.0  | 1.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 21.92 | 18 | 0.0  | 21.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 23.63 | 19 | 2.2  | 38.3 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0   | 0.0  | 0.0   | 7,230 +/- 80  |
| 23.74 | 20 | 3.4  | 27.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 24.54 | 21 | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 26.07 | 22 | 0.3  | 0.9  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 27.27 | 23 | 0.0  | 1.9  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 27.97 | 24 | 0.0  | 2.7  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 28.43 | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 11.6 | 0.0   | 10,950 +/- 90 |
| 28.63 | 26 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 31.11 | 27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 35.20 | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |
| 35.99 | 29 | 0.0  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   |               |

## APPENDIX 2.—Continued.

## CORE S29

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|------|
| 2.31  | 30 | 10.36 | 33.02 | 56.62 | 73.8 | 0.6 | 0.8  | 2.6  | 3.2  | 0.0  | 0.0  | 0.0  | 1.1  | 2.6  | 0.0  |
| 3.58  | 31 | 0.12  | 65.80 | 34.08 | 71.8 | 1.5 | 0.6  | 1.5  | 5.2  | 0.0  | 0.0  | 17.6 | 0.6  | 0.6  | 0.0  |
| 4.70  | 32 | 1.98  | 64.19 | 33.83 | 60.7 | 1.3 | 27.9 | 4.9  | 0.0  | 0.0  | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.65  | 33 | 0.32  | 49.46 | 50.22 | 67.6 | 0.3 | 16.8 | 10.1 | 1.6  | 0.0  | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.90  | 34 | 0.11  | 63.26 | 36.63 | 73.1 | 0.9 | 2.9  | 9.8  | 2.4  | 0.0  | 1.7  | 0.0  | 7.5  | 0.0  | 0.0  |
| 7.79  | 35 | 70.26 | 11.37 | 18.36 | 80.6 | 1.9 | 2.6  | 12.9 | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  |
| 8.59  | 36 | 16.94 | 42.32 | 40.74 | 65.1 | 0.5 | 2.1  | 15.9 | 0.7  | 0.0  | 0.0  | 0.0  | 0.5  | 3.7  | 0.0  |
| 11.28 | 37 | 64.78 | 18.84 | 16.38 | 80.9 | 0.8 | 3.4  | 7.8  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  |
| 15.24 | 38 | 75.08 | 9.68  | 15.23 | 76.9 | 1.9 | 1.3  | 14.7 | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  |
| 18.29 | 39 | 63.10 | 18.76 | 18.13 | 72.9 | 2.2 | 1.7  | 14.2 | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 21.65 | 40 | 89.96 | 4.82  | 5.21  | 91.3 | 1.4 | 0.0  | 0.0  | 0.6  | 0.0  | 0.6  | 0.0  | 0.0  | 0.3  | 0.0  |
| 25.0  | 41 | 83.40 | 8.47  | 7.84  | 88.2 | 2.8 | 0.0  | 0.0  | 2.5  | 0.0  | 0.3  | 0.0  | 0.0  | 0.3  | 0.0  |
| 28.05 | 42 | 91.05 | 4.07  | 4.88  | 88.4 | 1.8 | 0.8  | 1.4  | 3.9  | 0.0  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  |
| 31.60 | 43 | 95.89 | 1.63  | 2.48  | 96.2 | 1.7 | 0.3  | 0.3  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35.07 | 44 | 87.61 | 7.76  | 4.63  | 92.2 | 1.6 | 0.6  | 0.0  | 2.7  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 38.12 | 45 | 90.67 | 4.44  | 4.89  | 88.2 | 4.7 | 0.6  | 2.7  | 2.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |







## APPENDIX 2.—Continued.

## CORE S30

| DEPTH  | NO | SHLW | SHLF | OSTR | SPNG | ECHN | WRMT | INSCT | OTH | WHITE | CARBON-14      |
|--------|----|------|------|------|------|------|------|-------|-----|-------|----------------|
| 30.5cm | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 1.52m  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 2.28   | 3  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 5.48   | 4  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 7.01   | 5  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 8.38   | 6  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 9.91   | 7  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 15.25  | 8  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 18.83  | 9  | 0.0  | 1.5  | 0.2  | 0.0  | 1.5  | 0.0  | 0.0   | 0.0 | 0.0   | 5,270 +/- 90   |
| 19.55  | 10 | 0.0  | 3.6  | 0.6  | 0.0  | 2.1  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 20.56  | 11 | 0.0  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 21.64  | 12 | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.3 | 0.0   |                |
| 22.60  | 13 | 0.0  | 2.1  | 0.0  | 0.0  | 4.3  | 0.0  | 0.0   | 0.0 | 0.0   | 5,020 +/- 110  |
| 23.57  | 14 | 0.0  | 0.9  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 24.10  | 15 | 0.0  | 3.5  | 0.0  | 0.0  | 2.6  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 24.80  | 16 | 0.0  | 2.2  | 0.0  | 0.0  | 7.6  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 25.51  | 17 | 0.0  | 8.8  | 0.7  | 0.0  | 18.1 | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 26.33  | 18 | 0.0  | 7.3  | 0.3  | 0.0  | 44.7 | 0.0  | 0.0   | 0.0 | 0.0   | 8,090 +/- 120  |
| 27.17  | 19 | 0.0  | 2.5  | 0.0  | 0.0  | 7.8  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 27.51  | 20 | 0.0  | 3.5  | 0.7  | 0.0  | 22.7 | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 27.78  | 21 | 0.6  | 4.3  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0   | 0.0 | 0.0   | 8,040 +/- 120  |
| 28.43  | 22 | 0.6  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 31.26  | 23 | 0.3  | 1.2  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 34.31  | 24 | 0.8  | 7.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.3 | 0.0   | 10,770 +/- 120 |
| 35.83  | 25 | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 38.88  | 26 | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 40.41  | 27 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |
| 41.93  | 28 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 0.0   |                |

## APPENDIX 2.—Continued.

| CORE S31 |    | DEPTH | NO    | SAND  | SILT | CLAY | LT   | HVY  | MICA | GLAU | PYRT | LITH | AGG  | PLTM | FORB | FORP |
|----------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.3      | 1  | 4.31  | 49.81 | 45.88 | 52.0 | 4.4  | 4.4  | 4.0  | 0.0  | 2.7  | 7.2  | 20.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 1.2      | 2  | 2.30  | 43.97 | 53.74 | 51.0 | 2.6  | 9.8  | 6.3  | 0.0  | 1.7  | 4.0  | 17.2 | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.4      | 3  | 3.07  | 46.35 | 50.58 | 73.0 | 1.6  | 3.5  | 15.0 | 0.0  | 1.3  | 1.6  | 1.3  | 0.6  | 0.0  | 0.0  | 0.0  |
| 3.0      | 4  | 0.06  | 24.07 | 75.87 | 90.0 | 2.7  | 2.4  | 0.3  | 0.0  | 0.0  | 4.1  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.6      | 5  | 0.80  | 27.03 | 72.17 | 7.2  | 0.3  | 2.4  | 0.0  | 0.0  | 0.0  | 0.0  | 88.6 | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.9      | 6  | 73.54 | 9.92  | 16.54 | <1.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 99.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.2      | 7  | 68.32 | 22.12 | 9.56  | 93.0 | 1.9  | 0.6  | 2.5  | 0.3  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.9      | 8  | 67.66 | 21.76 | 10.57 | 83.0 | 4.7  | 1.9  | 8.3  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.6      | 9  | 7.22  | 58.39 | 34.38 | 89.0 | 3.4  | 2.0  | 3.9  | 0.0  | 0.0  | 0.8  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8.2      | 10 | 0.25  | 57.58 | 42.17 | 74.0 | 0.9  | 3.6  | 0.0  | 0.6  | 0.0  | 0.0  | 19.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 9.1      | 11 | —     | —     | —     | 88.0 | 2.8  | 0.9  | 6.0  | 0.0  | 0.3  | 1.1  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9.4      | 12 | 5.83  | 44.86 | 49.32 | 73.0 | 2.2  | 4.6  | 12.0 | 0.0  | 0.3  | 0.0  | 7.6  | 0.9  | 0.0  | 0.0  | 0.0  |
| 10.7     | 13 | 51.18 | 28.16 | 20.66 | 81.0 | 1.3  | 1.5  | 14.0 | 0.0  | 0.3  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11.4     | 14 | 2.94  | 44.48 | 52.58 | 54.0 | 1.2  | 9.6  | 11.0 | 0.8  | 0.0  | 0.0  | 20.0 | 0.6  | 0.0  | 0.0  | 0.0  |
| 12.0     | 15 | 2.59  | 59.44 | 37.97 | 45.0 | 1.5  | 18.0 | 18.0 | 2.7  | 0.0  | 0.0  | 5.7  | 1.1  | 0.0  | 0.0  | 0.0  |
| 12.3     | 16 | 0.50  | 34.92 | 64.59 | 75.0 | 0.9  | 9.6  | 11.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13.6     | 17 | 2.14  | 42.12 | 55.74 | 79.0 | 0.7  | 3.6  | 14.0 | 0.0  | 0.0  | 0.0  | 2.4  | 0.3  | 0.0  | 0.0  | 0.0  |
| 14.5     | 18 | 12.89 | 32.92 | 52.89 | 81.0 | 1.6  | 2.6  | 13.0 | 0.0  | 0.0  | 0.0  | 2.0  | 0.3  | 0.0  | 0.0  | 0.0  |
| 15.5     | 19 | 19.43 | 41.94 | 38.64 | 72.0 | 1.0  | 3.7  | 18.0 | 0.0  | 0.3  | 0.0  | 1.0  | 0.3  | 0.0  | 0.0  | 0.0  |
| 16.6     | 20 | 5.14  | 42.56 | 52.30 | 61.0 | 0.6  | 4.5  | 29.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 17.5     | 21 | 7.73  | 50.00 | 42.27 | 36.0 | 1.0  | 8.7  | 17.0 | 0.0  | 0.6  | 0.0  | 0.3  | 1.2  | 0.0  | 0.0  | 0.0  |
| 18.4     | 22 | 0.38  | 38.25 | 61.37 | 45.0 | 0.6  | 21.0 | 6.9  | 0.0  | 0.8  | 0.0  | 19.6 | 0.4  | 0.0  | 0.0  | 0.0  |
| 19.7     | 23 | 0.53  | 55.23 | 44.24 | 29.0 | 0.9  | 35.0 | 2.5  | 0.0  | 0.0  | 0.0  | 15.6 | 12.6 | 0.0  | 0.0  | 0.0  |
| 20.0     | 24 | 0.13  | 27.72 | 72.15 | 43.0 | 3.3  | 29.0 | 1.1  | 0.0  | 0.0  | 0.0  | 2.2  | 13.4 | 0.0  | 0.0  | 0.0  |
| 21.0     | 25 | 1.45  | 29.31 | 69.24 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.0  | 0.0  | 0.0  | 0.0  |
| 21.6     | 26 | 0.16  | 33.28 | 66.56 | 38.0 | 0.9  | 6.8  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1  | 46.0 | 0.0  | 0.0  | 0.0  |
| 22.7     | 27 | 0.35  | 28.70 | 70.96 | 55.0 | 1.2  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 21.5 | 0.0  | 0.0  | 0.0  |
| 23.5     | 28 | 0.18  | 32.93 | 66.89 | 12.0 | 0.8  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 34.7 | 0.0  | 0.0  | 0.0  |
| 24.4     | 29 | 0.22  | 27.67 | 72.11 | 80.0 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.4 | 0.0  | 0.0  | 0.0  |
| 25.1     | 30 | 0.44  | 27.47 | 72.09 | 91.0 | 2.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1  | 0.0  | 0.0  | 0.0  |
| 23.2     | 31 | 0.39  | 21.13 | 78.48 | 76.0 | 3.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  |
| 26.4     | 32 | 0.22  | 22.12 | 77.66 | 63.0 | 0.5  | 0.0  | 0.8  | 19.0 | 0.0  | 0.3  | 0.0  | 5.3  | 0.0  | 0.0  | 0.0  |

[illegible]



## APPENDIX 2.—Continued.

## CORE S31

| DEPTH | NO | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | BRYO | PTER | DIAT | RADIO | OTH | CARBON-14     |
|-------|----|------|------|------|------|------|------|------|------|------|------|------|-------|-----|---------------|
| 0.3   | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 4.2 | 3,260 +/- 90  |
| 1.2   | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.9 |               |
| 2.4   | 3  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 1.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 3.0   | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 4.6   | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.3 |               |
| 4.9   | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 5.2   | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 6.9   | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 7.6   | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 8.2   | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.2  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 9.1   | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.4  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 5,840 +/- 140 |
| 9.4   | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 10.7  | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0   | 0.0 |               |
| 11.4  | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.2  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 12.0  | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 3.8  | 0.4  | 1.9  | 0.0  | 0.0  | 0.0  | 0.4  | 0.0   | 0.0 |               |
| 12.3  | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 13.6  | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 14.5  | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 15.5  | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 16.6  | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 6,590 +/- 110 |
| 17.5  | 21 | 0.0  | 0.0  | 0.0  | 35.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 18.4  | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 0.3  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 19.7  | 23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 20.0  | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 2.4 |               |
| 21.0  | 25 | 0.0  | 0.0  | 0.0  | 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 21.6  | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 6.0  | 0.0  | 0.6  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 22.7  | 27 | 0.0  | 0.0  | 0.6  | 4.3  | 11.6 | 0.0  | 0.0  | 4.1  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 23.5  | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 49.0 | 0.3  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 24.4  | 29 | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 | 7,850 +/- 140 |
| 25.1  | 30 | 0.0  | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 23.2  | 31 | 0.0  | 0.0  | 0.0  | 0.0  | 4.2  | 0.0  | 0.0  | 12.7 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0 |               |
| 26.4  | 32 | 0.0  | 0.5  | 0.0  | 0.0  | 9.4  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.8 |               |

[illegible]

## APPENDIX 2.—Continued.

| CORE S32 |    | DEPTH | NO    | SAND  | SILT | CLAY | LT   | HVY  | MICA | GLAU | PVRT | EVAP | LITH | AGG  | PLTM |
|----------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0.2      | 1  | 4.45  | 57.38 | 38.17 | 71.0 | 2.1  | 9.1  | 5.8  | 0.0  | 0.0  | 0.0  | 0.0  | 12.0 | 0.0  | 0.0  |
| 1.5      | 2  | 8.66  | 56.40 | 34.94 | 78.0 | 1.4  | 11.0 | 8.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | 0.0  |
| 2.9      | 3  | 31.59 | 35.34 | 33.08 | 87.0 | 3.4  | 2.8  | 4.8  | 0.0  | 0.0  | 0.0  | 1.7  | 0.6  | 0.0  | 0.0  |
| 3.8      | 4  | 76.51 | 15.14 | 8.35  | 88.0 | 6.4  | 1.9  | 3.2  | 0.0  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  |
| 4.6      | 5  | 1.30  | 65.06 | 33.64 | 63.0 | 1.4  | 12.0 | 1.9  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  | 17.0 | 2.3  |
| 5.3      | 6  | 82.51 | 8.88  | 8.61  | 91.0 | 1.7  | 1.4  | 4.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.6  | 0.0  |
| 7.5      | 7  | 11.31 | 53.99 | 34.70 | 55.0 | 0.8  | 8.6  | 12.0 | 3.3  | 0.0  | 0.0  | 0.8  | 0.0  | 14.0 | 2.5  |
| 9.1      | 8  | 0.94  | 49.68 | 49.38 | 51.0 | 1.0  | 17.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 19.0 | 6.3  |
| 10.6     | 9  | 1.61  | 31.17 | 67.22 | 3.0  | 0.0  | 12.0 | 0.0  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 61.0 | 0.0  |
| 11.9     | 10 | 3.63  | 32.66 | 63.71 | 78.0 | 1.0  | 3.9  | 4.2  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 9.7  | 0.0  |
| 12.6     | 11 | 88.22 | 5.66  | 6.12  | 80.0 | 3.0  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19.3     | 12 | 2.49  | 55.76 | 41.75 | 80.0 | 0.6  | 10.0 | 7.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  |
| 20.1     | 13 | 0.93  | 58.45 | 40.62 | 51.0 | 0.4  | 18.0 | 12.0 | 0.0  | 0.0  | 0.0  | 0.0  | 18.0 | 0.0  | 0.0  |
| 57       | 14 | -     | -     | -     | 80.0 | 2.3  | 0.8  | 11.3 | 0.0  | 0.0  | 0.0  | 2.5  | 2.0  | 0.6  | -    |
| 6.9      | 15 | -     | -     | -     | 89.0 | 1.2  | 1.2  | 6.0  | 0.0  | 0.0  | 0.0  | 1.5  | 0.5  | 0.0  | -    |
| 11.1     | 16 | -     | -     | -     | 61.0 | 0.9  | 0.4  | 5.5  | 0.0  | 0.0  | 0.0  | 1.1  | 30.0 | 0.0  | -    |
| 13.2     | 17 | -     | -     | -     | 89.0 | 4.1  | 0.3  | 5.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | -    |
| 14.5     | 18 | -     | -     | -     | 97.0 | 1.3  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 16.0     | 19 | -     | -     | -     | 94.0 | 1.9  | 0.0  | 2.2  | 0.0  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | -    |
| 17.5     | 20 | -     | -     | -     | 92.0 | 1.0  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | -    |
| 20.8     | 21 | -     | -     | -     | 86.0 | 4.5  | 2.4  | 6.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | -    |

## APPENDIX 2.—Continued.

| CORE S32 |    |      |      |      |      |      |      |      |      |      |      | CARBON-14                      |  |
|----------|----|------|------|------|------|------|------|------|------|------|------|--------------------------------|--|
| DEPTH    | NO | FORB | FORP | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN |                                |  |
| 0.2      | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5,880 +/- 170                  |  |
| 1.5      | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 2.9      | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 3.8      | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 4.6      | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.0  |                                |  |
| 5.3      | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 7.5      | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.9  | 0.0  |                                |  |
| 9.1      | 8  | 5.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 1.5  | 3.0  | 0.0  |                                |  |
| 10.6     | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.0 | 5.0  | 3.0  | 0.0  |                                |  |
| 11.9     | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  | 0.5  | 0.8  | 0.0  |                                |  |
| 12.6     | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.0 | 0.0  | 1.0  | 0.0  | 7,100 +/- 130<br>7,960 +/- 150 |  |
| 19.3     | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |                                |  |
| 20.1     | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 5.7      | 14 |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |                                |  |
| 6.9      | 15 |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.2  | 0.0  | 0.0  |                                |  |
| 11.1     | 16 |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.2  | 0.0  | 0.0  | 0.0  |                                |  |
| 13.2     | 17 |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 14.5     | 18 |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 16.0     | 19 |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  |                                |  |
| 17.5     | 20 |      | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |
| 20.8     | 21 |      | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |                                |  |



## APPENDIX 2.—Continued.

## CORE S33

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM  | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|-------|------|------|
| 1.0   | 22 | —     | —     | —     | 89.0 | 5.6 | 1.1  | 1.4  | 0.0  | 0.0  | 0.8  | 0.6  | 0.6   | 0.0  | 0.0  |
| 1.5   | 1  | 70.24 | 20.77 | 8.99  | 79.0 | 6.2 | 2.0  | 9.2  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0   | 0.0  | 0.0  |
| 2.3   | 2  | 8.70  | 22.32 | 68.98 | 52.0 | 3.1 | 5.6  | 5.1  | 0.0  | 0.0  | 0.6  | 0.0  | 1.5   | 4.5  | 0.0  |
| 3.4   | 3  | 0.11  | 57.84 | 42.05 | 15.0 | 6.5 | 35.0 | 2.3  | 0.0  | 0.0  | 1.0  | 0.0  | 38.5  | 0.0  | 0.0  |
| 4.4   | 4  | 1.63  | 53.76 | 44.61 | 42.0 | 1.8 | 18.0 | 19.0 | 0.8  | 0.0  | 0.8  | 0.0  | 3.1   | 2.9  | 0.0  |
| 5.8   | 5  | 0.95  | 30.59 | 68.47 | 60.0 | 4.0 | 9.5  | 3.5  | 0.6  | 0.0  | 0.6  | 0.0  | 1.7   | 13.9 | 0.0  |
| 6.3   | 6  | 71.59 | 18.31 | 10.10 | 66.0 | 0.6 | 3.2  | 27.0 | 0.0  | 0.0  | 1.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 7.2   | 7  | 1.17  | 68.46 | 30.37 | 51.0 | 3.1 | 29.0 | 12.0 | 0.0  | 0.0  | 1.2  | 0.9  | 2.2   | 0.0  | 0.0  |
| 7.8   | 8  | 0.86  | 71.73 | 27.42 | 57.0 | 1.2 | 22.0 | 6.5  | 0.0  | 0.0  | 0.9  | 0.0  | 8.3   | 0.0  | 0.0  |
| 8.4   | 9  | 0.79  | 59.27 | 39.94 | 24.0 | 1.1 | 40.0 | 1.4  | 0.0  | 0.0  | 0.0  | 0.0  | 20.4  | 3.5  | 0.0  |
| 9.3   | 10 | 65.88 | 20.27 | 13.86 | 81.0 | 4.5 | 1.3  | 13.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 10.0  | 11 | 90.66 | 4.49  | 4.85  | 17.0 | 0.5 | 0.3  | 1.9  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0   | 0.1  | 0.0  |
| 10.5  | 12 | 75.07 | 18.28 | 6.65  | 83.0 | 2.8 | 0.8  | 12.0 | 0.0  | 0.0  | 1.9  | 0.0  | 0.0   | 0.0  | 0.0  |
| 11.7  | 13 | 26.03 | 53.88 | 20.09 | 78.0 | 3.2 | 1.7  | 15.0 | 0.0  | 0.0  | 0.9  | 0.0  | 0.9   | 0.0  | 0.0  |
| 12.6  | 14 | 93.56 | 2.54  | 3.89  | 94.0 | 4.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0   | 0.0  | 0.0  |
| 13.2  | 23 | —     | —     | —     | 76.0 | 2.7 | 1.8  | 13.0 | 0.0  | 0.0  | 2.7  | 2.4  | 0.3   | 0.0  | 0.0  |
| 14.5  | 24 | —     | —     | —     | 95.0 | 0.9 | 0.6  | 0.9  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0   | 0.0  | 0.0  |
| 16.0  | 25 | —     | —     | —     | 79.0 | 6.0 | 2.6  | 7.3  | 0.0  | 0.0  | 2.8  | 0.5  | 0.0   | 0.0  | 0.0  |
| 17.5  | 26 | —     | —     | —     | 82.0 | 2.0 | 1.2  | 9.7  | 0.0  | 1.2  | 1.2  | 1.5  | 0.0   | 0.0  | 0.0  |
| 18.8  | 27 | —     | —     | —     | 82.0 | 3.5 | 0.6  | 10.0 | 0.0  | 0.0  | 1.6  | 0.0  | 0.0   | 0.0  | 0.0  |
| 19.7  | 28 | —     | —     | —     | 77.0 | 3.7 | 3.3  | 12.0 | 0.0  | 1.5  | 1.2  | 0.3  | 0.3   | 0.0  | 0.0  |
| 20.2  | 15 | 9.61  | 11.90 | 78.49 | 85.0 | 6.6 | 0.9  | 6.0  | 0.0  | 0.6  | 0.6  | 0.0  | 0.9   | 0.0  | 0.0  |
| 20.7  | 16 | 0.06  | 7.75  | 92.19 | 92.0 | 4.5 | 0.3  | 1.1  | 0.0  | 0.0  | 0.8  | 0.0  | 0.9   | 0.0  | 0.0  |
| 21.1  | 17 | 0.40  | 2.44  | 97.16 | 0.5  | 0.5 | 0.0  | 0.0  | 0.0  | 10.0 | 0.0  | 89.0 | 0.0   | 0.0  | 0.0  |
| 21.6  | 18 | 2.22  | 8.35  | 89.42 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 100.0 | 0.0  | 0.0  |
| 22.3  | 19 | 5.71  | 7.46  | 86.83 | 0.0  | 0.0 | 1.0  | 0.0  | 0.0  | 0.0  | 0.0  | 73.0 | 15.0  | 0.0  | 0.0  |
| 22.8  | 20 | 0.06  | 9.77  | 90.17 | 98.0 | 1.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 23.8  | 21 | 71.97 | 14.68 | 13.34 | 83.0 | 6.4 | 0.6  | 4.8  | 0.0  | 0.0  | 2.2  | 0.0  | 0.0   | 0.0  | 0.0  |
| 24.4  | 29 | —     | —     | —     | 93.0 | 2.2 | 0.3  | 2.2  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 25.5  | 30 | —     | —     | —     | 90.0 | 3.4 | 0.8  | 3.4  | 0.0  | 1.0  | 0.8  | 0.0  | 0.3   | 0.0  | 0.0  |



## APPENDIX 2.—Continued.

| CORE S34 |    | DEPTH | NO    | SAND  | SILT | CLAY | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|----------|----|-------|-------|-------|------|------|------|------|------|------|------|------|------|-----|------|------|------|
| 0.5      | 1  | 95.71 | 1.59  | 2.70  | 96   | 3.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 1.0      | 10 | -     | -     | -     | 95   | 3.5  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 2.3      | 11 | -     | -     | -     | 97   | 2.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 3.8      | 12 | -     | -     | -     | 98   | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5.3      | 13 | -     | -     | -     | 89   | 4.0  | 1.1  | 4.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 6.9      | 14 | -     | -     | -     | 88   | 2.9  | 1.2  | 4.7  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.3  | 0.0  |
| 8.4      | 15 | -     | -     | -     | 88   | 2.4  | 1.8  | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 9.8      | 16 | -     | -     | -     | 85   | 3.4  | 2.9  | 5.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0 | 0.0  | 0.6  | 0.0  |
| 10.4     | 2  | 1.90  | 46.07 | 52.04 | 14   | 0.0  | 23.0 | 0.8  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0 | 59.0 | 0.0  | 0.0  |
| 11.6     | 3  | 58.29 | 25.46 | 16.25 | 88   | 2.9  | 1.8  | 6.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.6  | 0.0  | 0.0  |
| 12.5     | 4  | 20.45 | 46.83 | 32.72 | 75   | 2.6  | 2.2  | 19.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.0  | 0.0  | 0.0  |
| 13.1     | 5  | 2.43  | 65.28 | 32.29 | 9.7  | 1.6  | 52.0 | 7.1  | 0.0  | 1.3  | 0.0  | 0.0  | 0.6  | 0.0 | 22.3 | 1.0  | 0.0  |
| 13.9     | 17 | -     | -     | -     | 89   | 2.1  | 0.3  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0 | 0.0  | 0.0  | 0.0  |
| 14.8     | 18 | -     | -     | -     | 91   | 2.2  | 0.6  | 2.2  | 0.0  | 0.0  | 0.0  | 0.0  | 1.3  | 0.0 | 0.3  | 0.0  | 0.0  |
| 16.0     | 19 | -     | -     | -     | 91   | 2.5  | 0.6  | 2.5  | 0.0  | 0.0  | 0.0  | 1.6  | 0.3  | 0.0 | 0.3  | 0.0  | 0.0  |
| 17.5     | 20 | -     | -     | -     | 82   | 3.0  | 0.6  | 5.1  | 0.0  | 0.0  | 0.0  | 3.6  | 0.0  | 0.0 | 0.0  | 0.3  | 0.0  |
| 19.1     | 21 | -     | -     | -     | 93   | 1.9  | 0.3  | 1.9  | 0.0  | 0.0  | 0.0  | 0.6  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 20.6     | 22 | -     | -     | -     | 80   | 1.7  | 0.0  | 4.7  | 0.0  | 0.0  | 0.0  | 1.9  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 21.9     | 23 | -     | -     | -     | 88   | 1.6  | 1.0  | 1.9  | 0.0  | 0.0  | 0.0  | 3.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 22.6     | 6  | 33.23 | 23.74 | 43.03 | 93   | 2.5  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 3.1 | 0.0  | 0.0  | 0.0  |
| 23.6     | 7  | 10.72 | 8.86  | 80.42 | 94   | 4.9  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.7  | 0.0 | 0.0  | 0.0  | 0.0  |
| 24.5     | 8  | 13.21 | 13.34 | 73.46 | 95   | 2.7  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 25.1     | 9  | 14.39 | 13.34 | 72.27 | 92   | 4.8  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.9 | 0.0  | 0.0  | 0.0  |
| 25.5     | 24 | -     | -     | -     | 86   | 4.6  | 0.0  | 2.2  | 0.0  | 0.0  | 0.0  | 1.5  | 1.2  | 1.2 | 0.0  | 0.0  | 0.0  |
| 26.7     | 25 | -     | -     | -     | 83   | 3.8  | 0.6  | 6.8  | 0.0  | 0.0  | 0.0  | 1.8  | 0.9  | 0.9 | 0.0  | 0.0  | 0.0  |
| 28.2     | 26 | -     | -     | -     | 88   | 2.5  | 0.9  | 4.1  | 0.0  | 0.0  | 0.0  | 1.3  | 1.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 29.7     | 27 | -     | -     | -     | 85   | 4.3  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 4.3  | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  |
| 31.2     | 28 | -     | -     | -     | 84   | 4.0  | 0.9  | 6.5  | 0.0  | 0.0  | 0.0  | 1.9  | 0.9  | 0.3 | 0.0  | 0.0  | 0.0  |
| 32.8     | 29 | -     | -     | -     | 88   | 2.8  | 0.6  | 2.8  | 0.0  | 0.0  | 0.0  | 3.4  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 34.3     | 30 | -     | -     | -     | 87   | 4.2  | 0.6  | 3.6  | 0.0  | 0.0  | 0.0  | 2.5  | 0.6  | 0.6 | 0.0  | 0.0  | 0.0  |
| 35.8     | 31 | -     | -     | -     | 87   | 4.1  | 0.6  | 3.9  | 0.0  | 0.0  | 0.0  | 1.9  | 0.8  | 0.6 | 0.0  | 0.3  | 0.0  |
| 37.3     | 32 | -     | -     | -     | 90   | 2.7  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 2.1  | 0.9  | 0.6 | 0.0  | 0.0  | 0.0  |
| 38.9     | 33 | -     | -     | -     | 91   | 1.7  | 0.8  | 1.4  | 0.0  | 0.0  | 0.0  | 4.2  | 0.6  | 0.6 | 0.0  | 0.0  | 0.0  |





## APPENDIX 2.—Continued.

| CORE S35 |    | DEPTH | NO    | SAND | SILT | CLAY  | LT | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|----------|----|-------|-------|------|------|-------|----|-----|------|------|------|------|------|-----|------|------|------|
| 1.7      | 13 | -     | -     | -    | -    | -     | 92 | 3.7 | 0.0  | 3.4  | 0.0  | 0.0  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 2.6      | 14 | -     | -     | -    | -    | -     | 93 | 3.3 | 1.2  | 1.2  | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  |
| 3.8      | 15 | -     | -     | -    | -    | -     | 93 | 3.5 | 0.6  | 1.8  | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5.3      | 16 | -     | -     | -    | -    | -     | 88 | 4.4 | 0.9  | 3.2  | 0.0  | 0.0  | 2.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 6.9      | 17 | -     | -     | -    | -    | -     | 85 | 4.5 | 0.9  | 3.6  | 0.0  | 2.4  | 0.9  | 0.0 | 0.0  | 0.3  | 0.0  |
| 8.4      | 18 | -     | -     | -    | -    | -     | 87 | 3.0 | 0.6  | 4.9  | 0.0  | 2.4  | 1.2  | 0.0 | 0.0  | 0.0  | 0.0  |
| 10.1     | 19 | -     | -     | -    | -    | -     | 81 | 1.4 | 0.5  | 2.2  | 0.0  | 2.0  | 2.0  | 0.0 | 0.6  | 0.2  | 0.0  |
| 11.2     | 1  | 28.58 | 40.50 | -    | -    | 30.92 | 60 | 2.1 | 6.8  | 2.3  | 0.0  | 0.0  | 1.3  | 0.0 | 1.8  | 0.5  | 0.3  |
| 11.8     | 20 | -     | -     | -    | -    | -     | 88 | 1.5 | 0.9  | 5.5  | 0.0  | 0.3  | 1.8  | 0.0 | 0.0  | 0.0  | 0.0  |
| 12.6     | 21 | -     | -     | -    | -    | -     | 86 | 4.4 | 1.2  | 3.8  | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.3  | 0.0  |
| 13.6     | 22 | -     | -     | -    | -    | -     | 86 | 3.0 | 1.5  | 4.6  | 0.0  | 1.2  | 2.1  | 0.0 | 0.0  | 0.3  | 0.0  |
| 14.0     | 2  | 23.59 | 33.53 | -    | -    | 42.88 | 58 | 1.0 | 5.9  | 11.0 | 0.0  | 0.0  | 1.0  | 0.0 | 19.5 | 1.0  | 0.0  |
| 14.5     | 3  | 46.42 | 37.64 | -    | -    | 15.94 | 76 | 2.3 | 3.0  | 14.0 | 0.0  | 0.0  | 3.9  | 0.0 | 0.0  | 0.0  | 0.0  |
| 15.8     | 24 | -     | -     | -    | -    | -     | 85 | 1.8 | 0.4  | 2.1  | 0.0  | 5.0  | 0.7  | 0.0 | 0.0  | 0.0  | 0.0  |
| 16.2     | 4  | 53.44 | 31.79 | -    | -    | 14.78 | 82 | 5.0 | 1.0  | 8.3  | 0.0  | 0.0  | 2.3  | 0.0 | 0.7  | 0.3  | 0.0  |
| 18.0     | 5  | 1.42  | 58.53 | -    | -    | 40.04 | 41 | 0.9 | 20.0 | 9.8  | 0.6  | 0.0  | 0.6  | 0.0 | 25.0 | 0.6  | 0.0  |
| 19.1     | 6  | 1.45  | 53.67 | -    | -    | 44.88 | 39 | 1.9 | 23.0 | 15.0 | 0.0  | 0.0  | 0.0  | 0.3 | 17.8 | 1.1  | 0.0  |
| 19.6     | 7  | 0.55  | 33.94 | -    | -    | 65.51 | 19 | 1.5 | 0.3  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0 | 27.0 | 50.2 | 0.0  |
| 20.9     | 9  | 12.92 | 32.39 | -    | -    | 54.69 | 60 | 1.5 | 0.0  | 0.0  | 10.0 | 0.0  | 0.0  | 0.0 | 9.0  | 1.0  | 0.0  |
| 21.6     | 10 | 6.76  | 43.87 | -    | -    | 49.37 | 15 | 1.0 | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0 | 5.0  | 4.0  | 0.0  |
| 22.3     | 25 | -     | -     | -    | -    | -     | 84 | 1.4 | 0.4  | 2.4  | 0.0  | 0.2  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 23.6     | 26 | -     | -     | -    | -    | -     | 88 | 2.0 | 0.5  | 2.5  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 25.2     | 27 | -     | -     | -    | -    | -     | 90 | 1.2 | 0.6  | 1.8  | 0.0  | 0.6  | 0.9  | 0.0 | 0.0  | 0.0  | 0.0  |
| 26.7     | 28 | -     | -     | -    | -    | -     | 91 | 0.9 | 0.3  | 1.5  | 0.0  | 1.2  | 1.2  | 0.0 | 0.0  | 0.3  | 0.0  |
| 28.2     | 29 | -     | -     | -    | -    | -     | 90 | 1.6 | 0.3  | 1.8  | 0.0  | 0.7  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 29.4     | 30 | -     | -     | -    | -    | -     | 85 | 1.7 | 0.1  | 2.4  | 0.0  | 0.6  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 30.0     | 11 | 32.22 | 26.07 | -    | -    | 41.71 | 81 | 1.9 | 0.8  | 0.8  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 30.3     | 12 | 38.20 | 41.44 | -    | -    | 20.35 | 85 | 1.8 | 3.2  | 5.0  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 31.1     | 31 | -     | -     | -    | -    | -     | 87 | 2.4 | 0.2  | 1.5  | 0.0  | 0.8  | 0.1  | 0.0 | 0.0  | 0.0  | 0.0  |
| 32.8     | 32 | -     | -     | -    | -    | -     | 90 | 1.1 | 0.3  | 1.9  | 0.0  | 0.9  | 0.5  | 0.0 | 0.0  | 0.1  | 0.0  |
| 34.3     | 33 | -     | -     | -    | -    | -     | 90 | 2.8 | 0.6  | 4.3  | 0.0  | 0.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S36

| DEPTH | NO   | SAND  | SILT  | CLAY  | LT | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|-------|------|-------|-------|-------|----|-----|------|------|------|------|------|-----|------|------|------|
| 0.0   | surf | -     | -     | -     | 88 | 1.7 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 1.2 | 7.6  | 0.0  | 0.0  |
| 0.5   | 1    | 66.89 | 12.50 | 20.61 | 96 | 1.0 | 0.3  | 0.6  | 0.0  | 0.3  | 0.0  | 0.3 | 1.0  | 0.0  | 0.0  |
| 1.1   | 14   | -     | -     | -     | 97 | 1.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 1.8   | 2    | 43.65 | 19.75 | 36.60 | 88 | 0.9 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 11.2 | 0.0  | 0.0  |
| 2.6   | 15   | -     | -     | -     | 96 | 4.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 3.8   | 16   | -     | -     | -     | 97 | 2.7 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5.3   | 17   | -     | -     | -     | 94 | 2.6 | 0.0  | 1.0  | 0.0  | 0.0  | 1.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 6.9   | 18   | -     | -     | -     | 91 | 2.2 | 0.0  | 3.1  | 0.0  | 0.0  | 1.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 8.4   | 19   | -     | -     | -     | 90 | 2.5 | 0.6  | 4.4  | 0.0  | 0.0  | 1.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 9.9   | 20   | -     | -     | -     | 80 | 1.9 | 2.5  | 12.0 | 0.0  | 0.0  | 3.1  | 0.0 | 0.0  | 0.0  | 0.0  |
| 11.4  | 21   | -     | -     | -     | 85 | 3.3 | 2.2  | 6.8  | 0.0  | 0.0  | 1.1  | 0.0 | 0.0  | 0.0  | 0.0  |
| 12.3  | 3    | 0.59  | 39.65 | 59.76 | 70 | 1.4 | 12.0 | 2.8  | 0.3  | 0.0  | 0.0  | 0.0 | 13.4 | 0.0  | 0.0  |
| 13.3  | 4    | 24.90 | 49.30 | 25.80 | 70 | 2.1 | 7.2  | 15.0 | 0.0  | 0.0  | 2.1  | 0.0 | 3.1  | 0.0  | 0.0  |
| 14.0  | 5    | 0.80  | 43.72 | 55.48 | 90 | 0.5 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 5.5  | 0.5  | 0.0  |
| 14.3  | 6    | 89.13 | 2.91  | 7.96  | 89 | 9.5 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 1.2  | 0.0  | 0.0  |
| 14.8  | 22   | -     | -     | -     | 83 | 7.7 | 1.9  | 6.6  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 16.0  | 23   | -     | -     | -     | 97 | 1.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 17.5  | 24   | -     | -     | -     | 94 | 5.6 | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 19.1  | 25   | -     | -     | -     | 90 | 7.6 | 0.0  | 1.2  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 20.6  | 26   | -     | -     | -     | 90 | 4.8 | 0.6  | 3.1  | 0.0  | 0.0  | 0.8  | 0.0 | 0.0  | 0.0  | 0.0  |
| 22.1  | 27   | -     | -     | -     | 83 | 2.7 | 1.2  | 2.7  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 23.6  | 28   | -     | -     | -     | 89 | 3.8 | 0.6  | 3.2  | 0.0  | 0.0  | 1.7  | 0.3 | 0.0  | 0.0  | 0.0  |
| 24.7  | 29   | -     | -     | -     | 94 | 1.4 | 0.6  | 2.6  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 25.2  | 7    | 0.74  | 2.83  | 96.43 | 38 | 1.2 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.6  | 0.0  | 0.0  |
| 25.8  | 8    | 76.46 | 10.07 | 13.47 | 98 | 1.3 | 0.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 26.7  | 30   | -     | -     | -     | 96 | 3.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 28.2  | 31   | -     | -     | -     | 93 | 1.4 | 0.3  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 29.7  | 32   | -     | -     | -     | 93 | 3.1 | 0.3  | 3.1  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 31.2  | 33   | -     | -     | -     | 91 | 3.1 | 0.3  | 2.9  | 0.0  | 0.0  | 1.4  | 0.0 | 0.0  | 0.0  | 0.0  |
| 32.8  | 34   | -     | -     | -     | 93 | 3.1 | 0.3  | 1.7  | 0.0  | 0.0  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 34.0  | 35   | -     | -     | -     | 90 | 1.7 | 0.3  | 6.9  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |







[illegible]

## APPENDIX 2.—Continued.

## CORE S37

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | EVAP | LITH | AGG | PLTM | FORB |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|-----|------|------|
| 0.4   | 1  | 4.95  | 51.79 | 43.26 | 5.8  | 0.6 | 0.6  | 0.9  | 0.0  | 92.0 | 0.0  | 0.0 | 0.0  | 0.0  |
| 1.5   | 2  | 1.01  | 36.99 | 62.01 | 83.0 | 2.9 | 2.6  | 7.3  | 0.0  | 0.0  | 2.0  | 1.7 | 0.0  | 0.0  |
| 2.9   | 3  | 3.42  | 24.80 | 71.78 | 81.0 | 1.1 | 13.0 | 1.9  | 0.0  | 0.0  | 0.0  | 0.6 | 0.9  | 0.0  |
| 3.8   | 4  | 0.12  | 62.71 | 37.17 | 36.0 | 2.6 | 4.7  | 0.0  | 46.0 | 0.0  | 0.0  | 0.0 | 7.0  | 0.0  |
| 4.6   | 5  | 0.55  | 60.88 | 38.57 | 22.0 | 2.0 | 46.0 | 1.7  | 1.7  | 0.0  | 0.0  | 0.7 | 16.0 | 3.0  |
| 6.1   | 6  | 43.29 | 28.46 | 28.25 | 82.0 | 2.2 | 3.2  | 9.7  | 0.0  | 0.0  | 1.6  | 0.0 | 1.1  | 0.0  |
| 7.0   | 7  | 68.72 | 21.01 | 10.27 | 82.0 | 2.4 | 2.4  | 13.0 | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  |
| 7.9   | 8  | 5.35  | 44.17 | 50.48 | 64.0 | 2.1 | 13.0 | 9.0  | 0.0  | 0.0  | 1.1  | 0.3 | 9.8  | 0.0  |
| 9.1   | 9  | 0.78  | 52.12 | 47.09 | 79.0 | 0.6 | 8.6  | 0.9  | 0.3  | 0.0  | 0.0  | 0.3 | 7.1  | 1.5  |
| 9.9   | 10 | 4.06  | 44.12 | 51.82 | 77.0 | 4.1 | 4.4  | 11.0 | 0.0  | 0.0  | 1.7  | 0.0 | 1.4  | 0.0  |
| 10.7  | 11 | 0.32  | 43.27 | 56.41 | 68.0 | 3.3 | 5.3  | 4.1  | 0.0  | 0.0  | 0.0  | 0.0 | 6.1  | 0.0  |
| 12.2  | 12 | 1.65  | 38.27 | 60.08 | 37.0 | 1.2 | 29.0 | 3.8  | 0.0  | 0.0  | 0.0  | 0.0 | 25.0 | 0.0  |
| 12.8  | 13 | 90.68 | 4.24  | 5.08  | 95.0 | 2.2 | 1.9  | 0.3  | 0.0  | 0.0  | 0.3  | 0.0 | 0.3  | 0.0  |
| 13.0  | 14 | 18.32 | 58.07 | 23.60 | 64.0 | 5.2 | 6.5  | 1.0  | 0.0  | 0.0  | 0.0  | 0.0 | 22.0 | 0.0  |
| 13.5  | 15 | -     | --    | -     | 99.0 | 0.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0 | 0.3  | 0.0  |
| 14.5  | 16 | -     | -     | -     | 82.0 | 3.6 | 0.0  | 13.0 | 0.0  | 0.0  | 1.4  | 0.0 | 0.0  | 0.0  |
| 16.0  | 17 | -     | -     | -     | 99.0 | 0.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.3  |
| 17.3  | 18 | -     | -     | --    | 93.0 | 1.2 | 0.9  | 3.4  | 0.0  | 0.3  | 0.0  | 0.0 | 0.0  | 0.0  |
| 19.0  | 19 | -     | -     | -     | 94.0 | 1.2 | 0.9  | 2.4  | 0.0  | 0.0  | 0.9  | 0.3 | 0.0  | 0.0  |
| 20.5  | 20 | -     | -     | -     | 95.0 | 1.6 | 0.0  | 2.5  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.3  |





## APPENDIX 2.—Continued.

## CORE S38

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM                              | FORB | FORP |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|------|-----------------------------------|------|------|
| surf  | 36 | 18.14 | 41.90 | 39.96 | 87.0 | 2.5  | 1.4  | 6.1  | 0.0  | 0.0  | 1.9  | 1.1  | 0.0                               | 0.0  | 0.0  |
| 2.1   | 37 | 25.62 | 27.28 | 47.10 | 78.0 | 3.4  | 2.1  | 3.0  | 0.0  | 0.0  | 0.9  | 9.5  | 0.9                               | 0.0  | 0.0  |
| 2.3   | 1  | 23.88 | 41.32 | 34.80 | 49.0 | 1.7  | 3.0  | 3.0  | 0.0  | 0.0  | 0.3  | 41.0 | 0.8                               | 0.0  | 0.0  |
| 3.0   | 2  | 84.42 | 10.14 | 5.44  | 83.0 | 4.7  | 0.2  | 9.6  | 0.4  | 0.2  | 0.7  | 1.3  | 0.0                               | 0.0  | 0.0  |
| 4.6   | 3  | 6.99  | 21.33 | 71.68 | 70.0 | 4.7  | 5.4  | 6.3  | 0.0  | 0.0  | 0.3  | 2.5  | 8.8                               | 0.0  | 0.0  |
| 5.6   | 4  | 66.27 | 17.41 | 16.33 | 82.0 | 3.7  | 1.7  | 10.0 | 0.7  | 0.0  | 1.0  | 0.7  | 0.0                               | 0.0  | 0.0  |
| 5.9   | 5  | 94.39 | 2.60  | 3.01  | 89.0 | 2.9  | 0.3  | 6.1  | 0.0  | 0.0  | 0.3  | 1.0  | 0.0                               | 0.0  | 0.0  |
| 3.8   | 6  | -     | -     | -     | 88.0 | 3.2  | 0.3  | 6.1  | 0.0  | 0.0  | 1.7  | 0.3  | 0.0                               | 0.0  | 0.0  |
| 7.3   | 38 | 0.14  | 46.09 | 53.77 | 72.0 | 1.7  | 2.2  | 1.1  | 0.0  | 0.0  | 0.0  | 0.0  | 21.0                              | 0.0  | 0.0  |
| 7.9   | 7  | 0.71  | 47.95 | 51.33 | 31.0 | 1.8  | 27.0 | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 37.2                              | 0.0  | 0.0  |
| 9.4   | 8  | 69.33 | 23.39 | 7.28  | 74.0 | 2.9  | 6.0  | 14.0 | 0.0  | 0.0  | 1.7  | 0.9  | 0.0                               | 0.0  | 0.0  |
| 11.0  | 9  | 72.37 | 16.94 | 10.69 | 77.0 | 4.0  | 3.4  | 9.2  | 1.2  | 0.0  | 4.0  | 1.2  | 0.0                               | 0.0  | 0.0  |
| 11.9  | 39 | 1.55  | 47.2  | 51.25 | 12.0 | 0.2  | 50.0 | 2.2  | 0.0  | 0.0  | 0.0  | 8.0  | 22.5                              | 0.0  | 0.0  |
| 12.8  | 10 | 7.23  | 40.12 | 52.65 | 68.0 | 2.8  | 5.6  | 4.7  | 2.3  | 0.0  | 0.5  | 0.9  | 14.2                              | 0.0  | 0.0  |
| 13.7  | 11 | 89.75 | 6.27  | 3.98  | 53.0 | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 40.0 | 0.0                               | 0.0  | 0.0  |
| 14.5  | 12 | -     | -     | -     | 84.0 | 5.0  | 1.5  | 6.1  | 0.0  | 0.0  | 2.3  | 1.2  | 0.0                               | 0.0  | 0.0  |
| 16.0  | 13 | -     | -     | -     | 91.0 | 2.2  | 1.7  | 1.7  | 0.0  | 0.0  | 2.5  | 0.3  | 0.0                               | 0.0  | 0.0  |
| 17.3  | 14 | -     | -     | -     | 93.0 | 2.7  | 0.7  | 3.1  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0                               | 0.0  | 0.0  |
| 18.6  | 15 | 10.10 | 30.61 | 59.29 | 77.0 | 2.0  | 0.0  | 0.2  | 0.0  | 0.0  | 0.2  | 21.0 | 0.0                               | 0.0  | 0.0  |
| 19.4  | 40 | 3.19  | 24.06 | 72.75 | 97.0 | 2.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  |
| 19.5  | 16 | 1.8   | 32.91 | 65.29 | 82.0 | 0.7  | 0.3  | 2.3  | 0.0  | 0.7  | 0.3  | 7.6  | 0.0                               | 0.0  | 0.0  |
| 20.4  | 17 | 3.13  | 51.58 | 45.29 | 60.0 | 1.0  | 4.5  | 6.8  | 0.0  | 0.0  | 1.3  | 26.0 | 0.0                               | 0.0  | 0.0  |
| 20.7  | 41 | 1.39  | 48.12 | 50.50 | 66.0 | 0.9  | 7.5  | 5.1  | 0.0  | 0.0  | 0.3  | 20.0 | 0.0                               | 0.0  | 0.0  |
| 21.5  | 18 | 0.98  | 33.53 | 65.49 | 11.0 | 0.8  | 0.8  | 0.0  | 0.0  | 1.1  | 0.0  | 78.0 | 0.0                               | 0.0  | 0.0  |
| 21.9  | 42 | 0.16  | 2.88  | 96.96 | 91.0 | 3.3  | 4.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5                               | 0.0  | 0.0  |
| 23.0  | 19 | 9.61  | 15.81 | 74.57 |      |      |      |      |      |      |      |      | Insufficient Sand for Grain Count |      |      |
| 24.4  | 20 | 71.53 | 0.0   | 0.0   | 98.7 | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0                               | 0.0  | 0.0  |
| 25.1  | 21 | -     | -     | -     | 82.0 | 2.4  | 1.8  | 9.1  | 0.0  | 0.0  | 2.7  | 0.3  | 0.0                               | 1.2  | 0.0  |
| 26.7  | 22 | -     | -     | -     | 71.0 | 11.0 | 3.7  | 6.9  | 0.0  | 0.0  | 2.2  | 0.5  | 0.2                               | 0.5  | 0.0  |
| 28.2  | 23 | -     | -     | -     | 88.0 | 1.8  | 1.0  | 4.5  | 0.3  | 0.0  | 2.5  | 0.8  | 0.0                               | 0.0  | 0.0  |
| 29.9  | 24 | 11.98 | 49.11 | 38.91 | 61.0 | 1.9  | 5.1  | 5.1  | 0.0  | 0.0  | 0.6  | 26.0 | 0.0                               | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S38

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|------|
| 30.8  | 25 | 7.16  | 44.18 | 48.66 | 58.0 | 0.6 | 2.0  | 6.0  | 0.0  | 0.0  | 0.0  | 33.0 | 0.0  | 0.0  | 0.0  |
| 31.0  | 43 | 10.36 | 46.37 | 43.27 | 67.0 | 0.3 | 15.0 | 3.9  | 0.0  | 0.0  | 0.3  | 9.3  | 0.3  | 0.0  | 0.0  |
| 32.0  | 26 | 46.63 | 38.92 | 14.46 | 68.0 | 3.3 | 8.8  | 14.0 | 0.0  | 0.2  | 1.1  | 4.2  | 0.0  | 0.0  | 0.0  |
| 32.8  | 27 | -     | -     | -     | 90.0 | 2.5 | 0.3  | 4.4  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 34.3  | 28 | -     | -     | -     | 84.0 | 1.9 | 0.2  | 8.8  | 0.0  | 0.0  | 3.7  | 0.5  | 0.0  | 0.5  | 0.0  |
| 35.8  | 29 | -     | -     | -     | 86.0 | 2.7 | 0.2  | 7.4  | 0.0  | 0.0  | 2.0  | 0.7  | 0.0  | 0.0  | 0.0  |
| 37.3  | 30 | -     | -     | -     | 84.0 | 4.8 | 1.2  | 6.3  | 0.0  | 0.0  | 2.2  | 0.5  | 0.2  | 0.2  | 0.0  |
| 38.9  | 31 | -     | -     | -     | 83.0 | 2.5 | 1.4  | 7.8  | 0.0  | 0.0  | 2.8  | 0.6  | 0.0  | 0.6  | 0.0  |
| 40.4  | 32 | -     | -     | -     | 83.0 | 2.1 | 2.7  | 7.5  | 0.0  | 0.0  | 0.9  | 1.8  | 0.0  | 0.0  | 0.0  |
| 41.9  | 33 | -     | -     | -     | 88.0 | 2.8 | 0.4  | 4.5  | 0.0  | 0.0  | 1.7  | 1.3  | 0.2  | 0.2  | 0.0  |
| 43.4  | 34 | -     | -     | -     | 93.0 | 1.7 | 0.3  | 2.5  | 0.3  | 0.0  | 0.8  | 0.6  | 0.0  | 0.0  | 0.0  |
| 45.0  | 35 | -     | -     | -     | 88.0 | 4.6 | 0.6  | 4.9  | 0.0  | 0.0  | 0.3  | 0.9  | 0.0  | 0.0  | 0.0  |

















## APPENDIX 2.—Continued.

## CORE S41

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY                               | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----------------------------------|------|------|------|------|------|------|------|------|------|
| surf  | 43 | 98.33 | 1.30  | 0.37  | 85.0 | 12.0                              | 0.0  | 1.1  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 08    | 1  | 98.92 | 0.69  | 0.39  | 91.0 | 6.7                               | 0.0  | 0.9  | 0.0  | 0.0  | 0.9  | 0.3  | 0.0  | 0.0  | 0.0  |
| 2.3   | 2  | 99.38 | 0.47  | 0.15  | 95.0 | 2.1                               | 0.0  | 0.9  | 0.0  | 0.0  | 1.2  | 0.3  | 0.0  | 0.0  | 0.0  |
| 3.8   | 3  | 94.85 | 2.37  | 2.79  | 94.0 | 1.5                               | 0.3  | 2.7  | 0.0  | 0.6  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  |
| 5.3   | 4  | 97.41 | 0.77  | 1.82  | 89.0 | 3.4                               | 0.6  | 4.0  | 0.0  | 1.2  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.9   | 5  | 99.31 | 0.21  | 0.48  | 91.0 | 1.1                               | 0.8  | 2.3  | 0.0  | 1.7  | 0.3  | 0.3  | 0.0  | 0.3  | 0.0  |
| 7.8   | 44 | 92.22 | 3.82  | 3.96  |      | Insufficient Sand for Grain Count |      |      |      |      |      |      |      |      |      |
| 7.9   | 6  | 71.79 | 18.34 | 9.87  | 74.0 | 0.6                               | 3.0  | 19.0 | 0.0  | 0.3  | 1.8  | 0.3  | 0.0  | 0.0  | 0.0  |
| 8.2   | 7  | 98.90 | 0.50  | 0.60  | 84.0 | 4.1                               | 0.9  | 6.6  | 0.0  | 0.0  | 1.9  | 0.6  | 0.0  | 0.3  | 0.0  |
| 8.7   | 45 | 4.51  | 37.83 | 57.66 | 10.0 | 2.2                               | 22.0 | 1.2  | 0.3  | 0.0  | 0.0  | 0.0  | 56.8 | 0.0  | 0.0  |
| 9.1   | 8  | 55.75 | 31.38 | 12.87 | 89.0 | 2.6                               | 2.0  | 4.6  | 0.0  | 0.3  | 0.7  | 0.3  | 0.0  | 0.3  | 0.0  |
| 9.9   | 9  | 98.06 | 1.13  | 0.80  | 87.0 | 0.9                               | 0.3  | 6.6  | 0.3  | 0.3  | 1.8  | 1.2  | 0.0  | 0.0  | 0.0  |
| 11.4  | 10 | 97.56 | 1.59  | 0.85  | 80.0 | 1.2                               | 0.3  | 11.0 | 0.0  | 1.6  | 3.7  | 0.6  | 0.0  | 0.0  | 0.0  |
| 13.0  | 11 | 93.35 | 0.61  | 6.04  | 77.0 | 4.8                               | 2.0  | 10.0 | 0.0  | 0.0  | 3.7  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13.9  | 12 | 94.04 | 4.06  | 1.90  | 82.0 | 3.9                               | 1.2  | 6.6  | 0.6  | 0.0  | 4.8  | 0.9  | 0.0  | 0.0  | 0.0  |
| 14.2  | 46 | 21.49 | 34.91 | 43.60 | 84.0 | 3.4                               | 3.1  | 3.7  | 0.0  | 0.0  | 2.8  | 1.2  | 0.9  | 0.0  | 0.0  |
| 15.5  | 13 | 51.62 | 38.05 | 10.34 | 84.0 | 4.2                               | 0.6  | 6.3  | 0.6  | 0.0  | 4.2  | 0.3  | 0.0  | 0.0  | 0.0  |
| 15.7  | 14 | 96.93 | 1.86  | 1.21  | 83.0 | 1.8                               | 1.6  | 9.2  | 0.0  | 0.0  | 3.4  | 0.8  | 0.0  | 0.0  | 0.0  |
| 16.6  | 15 | 92.93 | 4.12  | 3.66  | 92.0 | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 18.3  | 16 | 63.20 | 27.97 | 8.83  | 84.0 | 1.8                               | 1.8  | 12.0 | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 0.3  | 0.0  |
| 18.6  | 17 | 96.02 | 2.70  | 1.29  | 79.0 | 4.3                               | 3.4  | 8.2  | 0.3  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 19.1  | 47 | 18.99 | 45.83 | 35.19 | 76.0 | 1.2                               | 4.7  | 6.1  | 0.3  | 0.0  | 3.5  | 1.2  | 5.3  | 0.0  | 0.0  |
| 20.1  | 18 | 59.18 | 18.81 | 22.01 | 75.0 | 2.0                               | 8.8  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.0  | 0.5  | 0.0  |
| 20.7  | 19 | 97.89 | 1.44  | 0.67  | 88.0 | 4.8                               | 0.8  | 3.1  | 0.0  | 0.0  | 2.2  | 0.0  | 0.0  | 0.6  | 0.0  |
| 22.1  | 20 | 95.31 | 3.06  | 1.63  | 82.0 | 5.9                               | 0.3  | 8.2  | 0.0  | 0.0  | 2.0  | 0.3  | 0.0  | 0.3  | 0.0  |
| 23.5  | 21 | 91.47 | 5.52  | 3.01  | 85.0 | 2.7                               | 1.5  | 7.6  | 0.3  | 0.3  | 0.9  | 0.6  | 0.0  | 0.3  | 0.0  |
| 24.2  | 48 | 2.35  | 28.99 | 68.66 |      | Insufficient Sand for Grain Count |      |      |      |      |      |      |      |      |      |
| 24.4  | 22 | 4.67  | 31.95 | 63.38 |      | Insufficient Sand for Grain Count |      |      |      |      |      |      |      |      |      |
| 25.0  | 23 | 9.28  | 46.27 | 44.46 | 37.0 | 1.2                               | 2.9  | 4.1  | 0.3  | 0.0  | 0.3  | 28.0 | 0.0  | 0.0  | 0.0  |
| 25.6  | 24 | 8.65  | 47.95 | 43.40 | 69.0 | 3.9                               | 3.9  | 5.0  | 0.0  | 0.3  | 0.6  | 15.6 | 0.0  | 0.0  | 0.0  |
| 26.4  | 49 | 1.76  | 54.00 | 44.24 | 66.0 | 0.3                               | 5.8  | 1.3  | 0.0  | 0.0  | 0.3  | 1.9  | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S41

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|------|
| 26.4  | 25 | 21.46 | 34.57 | 43.97 | 43.0 | 2.4 | 2.1  | 6.2  | 0.0  | 0.3  | 0.0  | 40.0 | 0.0  | 0.0  | 0.0  |
| 27.1  | 26 | 99.08 | 0.39  | 0.53  | 99.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 28.2  | 27 | -     | -     | -     | 79.0 | 1.6 | 2.1  | 8.7  | 0.0  | 1.3  | 0.8  | 4.7  | 0.0  | 0.3  | 0.0  |
| 29.7  | 28 | 98.62 | 0.55  | 0.83  | 97.0 | 0.6 | 0.0  | 0.0  | 0.0  | 0.3  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 31.2  | 29 | 89.40 | 4.94  | 5.66  | 82.0 | 6.1 | 1.1  | 4.5  | 0.0  | 2.6  | 2.9  | 1.3  | 0.0  | 0.5  | 0.0  |
| 32.8  | 30 | 94.25 | 3.41  | 2.33  | 84.0 | 5.2 | 0.9  | 6.9  | 0.0  | 0.0  | 1.4  | 1.7  | 0.0  | 0.0  | 0.0  |
| 34.3  | 31 | 97.40 | 1.45  | 1.15  | 92.0 | 3.8 | 0.0  | 2.3  | 0.0  | 0.9  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35.8  | 32 | 96.73 | 3.14  | 0.14  | 87.0 | 3.0 | 0.9  | 4.2  | 0.0  | 0.9  | 2.1  | 0.9  | 0.0  | 0.3  | 0.0  |
| 37.3  | 33 | 97.20 | 1.43  | 1.38  | 92.0 | 3.4 | 0.6  | 1.1  | 0.0  | 0.6  | 0.6  | 0.3  | 0.0  | 0.3  | 0.0  |
| 38.9  | 34 | 96.89 | 1.75  | 1.36  | 95.0 | 1.2 | 0.0  | 2.1  | 0.0  | 0.6  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40.4  | 35 | 97.86 | 1.26  | 0.87  | 94.0 | 2.1 | 1.1  | 1.9  | 0.0  | 0.5  | 0.5  | 0.3  | 0.0  | 0.0  | 0.0  |
| 41.9  | 36 | 93.57 | 3.60  | 2.83  | 86.0 | 5.2 | 0.9  | 4.9  | 0.0  | 0.0  | 2.9  | 0.3  | 0.0  | 0.0  | 0.0  |
| 43.4  | 37 | 98.05 | 0.89  | 1.06  | 95.0 | 1.5 | 0.0  | 1.7  | 0.0  | 1.5  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45.0  | 38 | 97.70 | 1.17  | 1.13  | 88.0 | 6.4 | 0.3  | 2.4  | 0.0  | 0.0  | 1.9  | 0.5  | 0.0  | 0.0  | 0.0  |
| 46.5  | 39 | 97.50 | 1.08  | 1.42  | 91.0 | 3.0 | 0.5  | 3.5  | 0.0  | 1.1  | 0.8  | 0.5  | 0.0  | 0.0  | 0.0  |
| 48.0  | 40 | 95.34 | 2.33  | 2.33  | 86.0 | 8.1 | 0.0  | 2.7  | 0.0  | 0.9  | 1.2  | 0.9  | 0.0  | 0.0  | 0.0  |
| 49.5  | 41 | 94.76 | 3.14  | 2.10  | 94.0 | 1.5 | 0.6  | 2.9  | 0.0  | 0.6  | 0.6  | 0.6  | 0.0  | 0.0  | 0.0  |
| 51.1  | 42 | 95.92 | 2.31  | 1.78  | 90.0 | 2.1 | 0.9  | 3.0  | 0.0  | 1.5  | 1.2  | 0.9  | 0.0  | 0.0  | 0.0  |



**CORE S41**

[illegible]



## APPENDIX 2.—Continued.

## CORE S42

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|-----|------|------|------|
| 0.0   | 33 | 99.08 | 0.38  | 0.54  | 64.0 | 33.0 | 0.0  | 1.2  | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  |
| 1.5   | 1  | -     | -     | -     | 85.0 | 12.0 | 0.0  | 1.8  | 0.0  | 0.0  | 1.2  | 0.0 | 0.0  | 0.0  | 0.0  |
| 2.3   | 2  | -     | -     | -     | 91.0 | 0.6  | 0.6  | 3.0  | 0.0  | 0.0  | 4.5  | 0.0 | 0.0  | 0.0  | 0.0  |
| 3.8   | 3  | -     | -     | -     | 85.0 | 3.3  | 0.5  | 5.4  | 0.0  | 0.0  | 3.8  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5.3   | 4  | -     | -     | -     | 82.0 | 1.7  | 1.4  | 9.1  | 0.0  | 0.0  | 3.6  | 0.0 | 0.0  | 0.3  | 0.0  |
| 6.9   | 5  | -     | -     | -     | 86.0 | 1.2  | 0.5  | 5.3  | 0.0  | 0.0  | 4.1  | 0.0 | 0.0  | 0.2  | 0.0  |
| 8.3   | 6  | -     | -     | -     | 90.0 | 3.3  | 0.6  | 1.5  | 0.0  | 0.0  | 1.5  | 0.0 | 0.0  | 0.0  | 0.0  |
| 9.8   | 7  | -     | -     | -     | 92.0 | 1.6  | 0.3  | 1.1  | 0.0  | 0.0  | 1.9  | 0.0 | 0.0  | 0.0  | 0.0  |
| 11.4  | 8  | -     | -     | -     | 40.0 | 2.0  | 0.0  | 2.0  | 0.0  | 0.0  | 5.0  | 0.0 | 0.0  | 0.5  | 0.0  |
| 13.1  | 9  | -     | -     | -     | 90.0 | 1.8  | 0.0  | 2.4  | 0.0  | 0.0  | 2.1  | 0.0 | 0.0  | 0.6  | 0.0  |
| 14.7  | 10 | -     | -     | -     | 88.0 | 2.6  | 0.5  | 3.3  | 0.0  | 0.0  | 1.0  | 0.0 | 0.0  | 0.5  | 0.0  |
| 16.0  | 11 | -     | -     | -     | 81.0 | 2.1  | 0.5  | 3.7  | 0.0  | 0.0  | 1.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 17.5  | 12 | -     | -     | -     | 87.0 | 3.5  | 0.0  | 2.9  | 0.0  | 0.0  | 2.9  | 0.0 | 0.0  | 0.5  | 0.0  |
| 19.1  | 13 | -     | -     | -     | 87.0 | 3.5  | 0.8  | 4.0  | 0.0  | 0.0  | 1.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 20.1  | 14 | -     | -     | -     | 87.0 | 3.6  | 0.0  | 6.0  | 0.0  | 0.0  | 1.3  | 0.0 | 0.3  | 0.5  | 0.0  |
| 20.7  | 34 | 13.32 | 45.26 | 41.42 | 73.0 | 1.5  | 6.7  | 7.9  | 0.0  | 0.0  | 2.3  | 1.7 | 3.8  | 2.3  | 0.0  |
| 21.2  | 15 | 58.47 | 28.07 | 13.46 | 67.0 | 2.5  | 10.0 | 7.3  | 0.0  | 0.0  | 2.5  | 0.5 | 9.4  | 0.0  | 0.0  |
| 22.0  | 16 | -     | -     | -     | 85.0 | 3.6  | 0.0  | 5.9  | 0.0  | 0.0  | 2.8  | 0.0 | 0.0  | 0.3  | 0.0  |
| 23.1  | 35 | 11.41 | 38.66 | 49.93 | 40.0 | 3.8  | 13.0 | 0.9  | 0.0  | 0.0  | 0.9  | 2.6 | 34.0 | 0.3  | 0.0  |
| 23.2  | 17 | 85.86 | 9.03  | 5.11  | 91.0 | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 23.9  | 18 | -     | -     | -     | 82.0 | 4.0  | 0.9  | 7.0  | 0.0  | 0.0  | 5.2  | 0.0 | 0.0  | 0.3  | 0.0  |
| 25.1  | 19 | -     | -     | -     | 84.0 | 3.2  | 0.2  | 6.2  | 0.0  | 0.0  | 4.7  | 0.0 | 0.0  | 0.0  | 0.0  |
| 26.7  | 20 | -     | -     | -     | 70.0 | 2.1  | 1.9  | 3.3  | 0.0  | 0.0  | 2.6  | 0.0 | 0.0  | 0.5  | 0.0  |
| 28.2  | 21 | -     | -     | -     | 86.0 | 4.0  | 0.6  | 3.7  | 0.0  | 0.0  | 2.8  | 0.6 | 0.0  | 0.0  | 0.0  |
| 29.7  | 22 | -     | -     | -     | 90.0 | 4.5  | 0.3  | 2.0  | 0.0  | 0.0  | 0.9  | 0.3 | 0.0  | 0.3  | 0.0  |
| 31.2  | 23 | -     | -     | -     | 85.0 | 3.0  | 0.3  | 6.8  | 0.0  | 0.0  | 2.5  | 0.3 | 0.0  | 0.5  | 0.0  |
| 32.8  | 24 | -     | -     | -     | 90.0 | 2.9  | 0.3  | 3.4  | 0.0  | 0.0  | 1.1  | 0.0 | 0.0  | 0.3  | 0.0  |
| 34.3  | 25 | -     | -     | -     | 88.0 | 4.4  | 0.3  | 4.1  | 0.0  | 0.0  | 0.9  | 0.3 | 0.0  | 0.3  | 0.0  |
| 35.8  | 26 | -     | -     | -     | 91.0 | 4.0  | 0.3  | 3.7  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 37.3  | 27 | -     | -     | -     | 97.0 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 0.0 | 0.3  | 0.3  | 0.0  |
| 38.9  | 28 | -     | -     | -     | 97.0 | 0.3  | 0.6  | 0.6  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 40.4  | 29 | -     | -     | -     | 93.0 | 2.9  | 0.3  | 1.3  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 41.9  | 30 | -     | -     | -     | 96.0 | 1.0  | 0.0  | 1.4  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 43.4  | 31 | -     | -     | -     | 96.0 | 0.3  | 0.3  | 0.3  | 0.0  | 0.0  | 0.3  | 0.0 | 0.0  | 0.6  | 0.0  |
| 45.0  | 32 | -     | -     | -     | 98.0 | 0.2  | 0.0  | 0.2  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S43

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA                              | GLAU | PVRT | EVAP | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|-----------------------------------|------|------|------|------|------|------|------|------|
| 0.0   | 34 | 81.08 | 5.36  | 13.56 | 87.9 | 5.6 | 0.3                               | 4.9  | 0.0  | 0.0  | 0.6  | 0.6  | 0.0  | 0.0  | 0.0  |
| 0.8   | 1  | 97.4  | 0.79  | 1.81  | 92.4 | 3.8 | 0.3                               | 0.9  | 0.0  | 0.0  | 0.9  | 1.3  | 0.0  | 0.0  | 0.0  |
| 2.3   | 2  | 98.22 | 0.54  | 1.24  | 85.8 | 6.1 | 0.9                               | 3.3  | 0.0  | 0.0  | 0.3  | 2.7  | 0.3  | 0.0  | 0.0  |
| 5.5   | 3  | 3.57  | 66.40 | 30.02 | 52.5 | 0.0 | 25.7                              | 11.0 | 0.8  | 0.0  | 0.0  | 3.6  | 4.4  | 0.8  | 0.0  |
| 6.2   | 35 | 21.45 | 35.96 | 42.59 | 61.0 | 2.2 | 6.0                               | 6.6  | 0.0  | 0.0  | 0.9  | 5.4  | 2.8  | 6.0  | 0.0  |
| 7.0   | 4  | 7.58  | 27.80 | 64.62 | 73.0 | 4.0 | 3.3                               | 8.8  | 0.3  | 0.0  | 0.0  | 1.8  | 1.5  | 6.1  | 0.0  |
| 7.9   | 36 | 51.71 | 21.07 | 27.22 | 85.0 | 3.5 | 0.6                               | 3.1  | 0.0  | 0.6  | 3.5  | 0.0  | 3.2  | 0.0  | 0.0  |
| 8.5   | 5  | 69.64 | 13.55 | 16.81 | 86.4 | 1.2 | 2.4                               | 5.4  | 0.3  | 0.0  | 0.3  | 2.4  | 0.0  | 0.0  | 0.0  |
| 9.0   | 6  | 92.82 | 4.61  | 2.58  | 86.6 | 5.0 | 1.25                              | 5.0  | 0.0  | 0.0  | 0.9  | 1.25 | 0.0  | 0.0  | 0.0  |
| 9.8   | 7  | 89.06 | 8.27  | 2.66  | 81.5 | 3.3 | 1.5                               | 10.7 | 0.0  | 0.0  | 0.9  | 1.8  | 0.0  | 0.3  | 0.0  |
| 11.4  | 8  | 92.44 | 5.50  | 2.05  | 86.2 | 2.6 | 0.6                               | 8.0  | 0.0  | 0.0  | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  |
| 13.1  | 37 | 1.41  | 36.06 | 62.53 |      |     | Insufficient Sand for Grain Count |      |      |      |      |      |      |      |      |
| 13.7  | 9  | 3.79  | 30.75 | 65.46 | 52.8 | 1.2 | 0.5                               | 3.2  | 1.9  | 0.0  | 0.0  | 38.0 | 0.5  | 0.5  | 0.0  |
| 14.5  | 10 | 70.41 | 16.89 | 12.71 | 83.3 | 1.3 | 0.96                              | 12.0 | 0.3  | 0.96 | 0.0  | 0.96 | 0.0  | 0.0  | 0.0  |
| 14.9  | 11 | 88.85 | 8.31  | 2.84  | 91.0 | 4.3 | 0.0                               | 3.6  | 0.0  | 0.3  | 0.3  | 0.7  | 0.0  | 0.0  | 0.0  |
| 16.0  | 12 | 88.36 | 7.63  | 4.00  | 86.0 | 2.2 | 0.6                               | 5.8  | 0.0  | 0.6  | 1.0  | 2.2  | 0.0  | 0.0  | 0.0  |
| 17.5  | 13 | 94.47 | 3.22  | 2.31  | 91.0 | 2.1 | 1.8                               | 1.2  | 0.0  | 0.0  | 1.5  | 0.3  | 0.3  | 0.3  | 0.0  |
| 18.6  | 14 | 18.96 | 20.98 | 60.06 | 95.0 | 1.9 | 0.6                               | 0.9  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 18.9  | 15 | 88.66 | 7.33  | 4.01  | 94.0 | 5.0 | 0.0                               | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  |
| 19.4  | 16 | 89.48 | 6.66  | 3.86  | 87.0 | 2.5 | 1.3                               | 6.7  | 0.0  | 0.6  | 0.3  | 1.0  | 0.3  | 0.0  | 0.0  |
| 20.6  | 17 | 95.19 | 2.96  | 1.85  | 91.0 | 3.8 | 0.0                               | 3.2  | 0.0  | 0.0  | 0.3  | 0.6  | 0.0  | 0.0  | 0.0  |
| 22.1  | 18 | 94.81 | 2.95  | 2.24  | 95.0 | 0.3 | 0.7                               | 2.3  | 0.0  | 0.0  | 0.3  | 1.3  | 0.0  | 0.0  | 0.0  |
| 23.6  | 19 | 98.38 | 0.30  | 1.33  | 91.0 | 2.7 | 0.6                               | 3.0  | 0.0  | 0.0  | 1.8  | 0.9  | 0.0  | 0.0  | 0.0  |
| 24.4  | 20 | 26.02 | 24.82 | 49.16 | 92.0 | 3.7 | 0.9                               | 3.1  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  |
| 24.8  | 21 | 88.27 | 4.21  | 7.51  | 94.0 | 6.2 | 0.0                               | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25.4  | 22 | 95.18 | 2.13  | 2.69  | 90.0 | 3.3 | 0.0                               | 3.6  | 0.0  | 0.0  | 2.4  | 0.9  | 0.0  | 0.0  | 0.0  |
| 26.7  | 23 | 95.05 | 2.39  | 2.56  | 86.0 | 5.9 | 0.3                               | 5.3  | 0.0  | 0.0  | 2.4  | 0.3  | 0.0  | 0.0  | 0.0  |
| 28.2  | 24 | 94.46 | 2.75  | 2.79  | 91.0 | 3.1 | 0.9                               | 2.8  | 0.3  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 29.7  | 25 | 93.58 | 3.43  | 2.98  | 89.0 | 6.0 | 0.3                               | 3.8  | 0.0  | 0.0  | 0.5  | 5.4  | 0.0  | 0.0  | 0.0  |
| 31.2  | 26 | 93.44 | 4.39  | 2.18  | 98.0 | 1.2 | 0.0                               | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.8  | 27 | 93.38 | 3.52  | 3.10  | 89.0 | 5.5 | 0.0                               | 1.2  | 0.0  | 0.0  | 1.8  | 0.6  | 0.0  | 0.0  | 0.0  |

**CORE S-43**

| DEPTH | NO | SAND  | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|-------|----|-------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|
| 34.3  | 28 | 96.15 | 1.84 | 2.01 | 97.0 | 0.5 | 0.0  | 0.3  | 0.0  | 0.0  | 0.3  | 0.3 | 0.0  | 0.0  | 0.0  |
| 35.8  | 29 | 94.51 | 3.38 | 2.11 | 95.0 | 1.7 | 1.1  | 1.4  | 0.0  | 0.0  | 0.0  | 0.6 | 0.0  | 0.0  | 0.0  |
| 37.3  | 30 | 94.16 | 4.00 | 1.84 | 92.0 | 5.0 | 0.5  | 1.8  | 0.3  | 0.0  | 0.8  | 0.0 | 0.0  | 0.0  | 0.0  |
| 38.9  | 31 | 95.29 | 2.43 | 2.28 | 92.0 | 2.4 | 0.3  | 2.7  | 0.0  | 0.0  | 2.4  | 0.0 | 0.0  | 0.0  | 0.0  |
| 40.4  | 32 | 94.07 | 4.36 | 1.57 | 95.0 | 2.3 | 0.3  | 1.2  | 0.0  | 0.0  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 41.9  | 33 | 94.40 | 3.32 | 2.28 | 93.0 | 2.2 | 0.0  | 3.0  | 0.0  | 0.0  | 0.5  | 0.5 | 0.0  | 0.0  | 0.0  |





## APPENDIX 2.—Continued.

| CORE S43 |    | CARBON-14 |      |      |      |      |      |      |      |      |      |      |
|----------|----|-----------|------|------|------|------|------|------|------|------|------|------|
| DEPTH    | NO | GSHW      | GSHF | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | BRYO | PTER | DIAT |
|          |    |           |      |      |      |      |      |      |      |      |      |      |
| 34.3     | 28 | 0.0       | 0.0  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35.8     | 29 | 0.0       | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.3     | 30 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 38.9     | 31 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40.4     | 32 | 0.0       | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 41.9     | 33 | 0.0       | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S44

| DEPTH | NO | SAND   | SILT  | CLAY  | LT  | HVY | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB |
|-------|----|--------|-------|-------|-----|-----|------|------|------|------|------|-----|------|------|
| 0.8   | 1  | 1.38   | 34.33 | 64.29 | 82  | 5.9 | 2.0  | 0.6  | 0.0  | 2.0  | 2.2  | 0.3 | 0.0  | 1.7  |
| 3.0   | 2  | 111.12 | 42.44 | 46.44 | 27  | 0.0 | 3.8  | 1.9  | 0.0  | 0.0  | 0.7  | 0.0 | 59.0 | 0.0  |
| 4.1   | 3  | 0.72   | 42.98 | 56.30 | 56  | 1.7 | 12.0 | 0.9  | 12.0 | 0.0  | 0.6  | 0.6 | 13.2 | 1.7  |
| 5.2   | 4  | 0.78   | 73.66 | 25.55 | 6.6 | 0.3 | 45.0 | 1.0  | 0.3  | 0.0  | 0.0  | 3.0 | 39.0 | 0.0  |
| 7.6   | 5  | 1.14   | 71.01 | 27.86 | 4.0 | 0.3 | 48.0 | 2.5  | 1.1  | 0.0  | 0.0  | 4.8 | 36.0 | 0.0  |
| 8.5   | 6  | 13.55  | 56.40 | 30.05 | 54  | 0.3 | 8.8  | 13.0 | 0.3  | 0.0  | 0.0  | 4.7 | 11.3 | 0.9  |
| 10.5  | 7  | 0.93   | 58.10 | 40.96 | 19  | 1.5 | 35.0 | 2.7  | 0.0  | 0.0  | 0.0  | 4.1 | 32.9 | 0.3  |
| 14.5  | 8  | 44.87  | 28.38 | 26.75 | 92  | 2.7 | 1.5  | 3.0  | 0.0  | 0.0  | 0.6  | 0.0 | 0.0  | 0.0  |
| 16.0  | 9  | -      | -     | -     | 87  | 4.5 | 0.8  | 5.1  | 0.0  | 0.0  | 0.8  | 0.0 | 0.0  | 0.0  |
| 17.5  | 10 | -      | -     | -     | 91  | 2.5 | 1.6  | 3.1  | 0.0  | 0.0  | 1.2  | 0.0 | 0.0  | 0.0  |
| 19.1  | 11 | -      | -     | -     | 88  | 5.6 | 0.9  | 5.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.3  |
| 20.6  | 12 | -      | -     | -     | 92  | 3.3 | 0.5  | 3.6  | 0.0  | 0.0  | 0.5  | 0.0 | 0.0  | 0.0  |





## APPENDIX 2.—Continued.

## CORE S45

| DEPTH | NO | SAND  | SILT  | CLAY  | LT  | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB |
|-------|----|-------|-------|-------|-----|------|------|------|------|------|------|------|------|------|
| 2.4   | 1  | 71.55 | 17.49 | 10.96 | 74  | 4.1  | 2.9  | 13.0 | 0.0  | 0.0  | 2.6  | 2.3  | 0.0  | 0.0  |
| 3.8   | 13 | -     | -     | -     | 86  | 5.0  | 0.0  | 7.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  |
| 5.3   | 14 | -     | -     | -     | 86  | 3.5  | 0.9  | 6.8  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.3  |
| 6.6   | 2  | 0.51  | 59.80 | 39.69 | 12  | 1.6  | 60.0 | 2.6  | 0.3  | 0.0  | 0.0  | 1.0  | 20.7 | 0.0  |
| 8.2   | 3  | 1.82  | 48.90 | 49.28 | 7.6 | 0.3  | 26.0 | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 61.4 | 0.0  |
| 9.9   | 15 | -     | -     | -     | 86  | 4.6  | 0.0  | 6.4  | 0.0  | 0.0  | 3.4  | 0.0  | 0.0  | 0.0  |
| 12.0  | 4  | 2.44  | 48.63 | 48.93 | 25  | 0.0  | 35.0 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35.0 | 0.0  |
| 14.7  | 16 | -     | -     | -     | 95  | 0.9  | 0.0  | 2.3  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  |
| 16.0  | 17 | -     | -     | -     | 85  | 3.0  | 0.0  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 17.5  | 18 | -     | -     | -     | 93  | 1.2  | 0.3  | 0.3  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  |
| 18.6  | 5  | 19.01 | 41.79 | 39.20 | 88  | 2.2  | 1.3  | 2.2  | 0.0  | 0.0  | 0.0  | 6.0  | 0.0  | 0.0  |
| 19.4  | 6  | 4.72  | 49.42 | 45.86 | 89  | 1.8  | 5.7  | 2.7  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  |
| 20.2  | 8  | 1.88  | 53.61 | 44.51 | 73  | 1.8  | 15.0 | 1.6  | 0.0  | 0.0  | 1.0  | 6.5  | 0.0  | 0.0  |
| 21.3  | 9  | 0.36  | 19.40 | 80.23 | 20  | 0.0  | 10.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 22.1  | 10 | 0.12  | 14.19 | 85.69 | 83  | 11.0 | 4.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  |
| 23.1  | 11 | 1.15  | 8.02  | 90.82 | 1   | 0.0  | 0.0  | 0.0  | 0.0  | 80.0 | 0.0  | 19.0 | 0.0  | 0.0  |
| 24.1  | 12 | 1.22  | 6.61  | 92.16 | 1   | 0.0  | 0.0  | 0.0  | 0.0  | 35.0 | 0.0  | 40.0 | 14.0 | 0.0  |
| 25.1  | 19 | -     | -     | -     | 90  | 1.7  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  |
| 26.7  | 20 | -     | -     | -     | 96  | 1.6  | 0.6  | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 28.2  | 21 | -     | -     | -     | 96  | 1.9  | 0.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 29.7  | 22 | -     | -     | -     | 97  | 2.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S46

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU  | PYRT | EVAP | LITH | AGG  | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|------|-------|-------|------|------|------|------|-------|------|
| 0.17  | 1  | 9.51  | 54.16 | 36.33 | 76.42 | 4.72 | 5.97  | 9.43  | 0.0  | 0.63 | 1.57 | 0.0  | 0.0   | 0.63 |
| 1.52  | 2  | 11.83 | 51.46 | 36.71 | 85.21 | 1.78 | 0.3   | 10.95 | 0.0  | 0.3  | 0.89 | 0.59 | 0.0   | 0.0  |
| 2.13  | 3  | 14.24 | 53.65 | 32.11 | 77.5  | 2.5  | 3.75  | 11.56 | 0.0  | 0.0  | 4.06 | 0.63 | 0.0   | 0.0  |
| 9.96  | 4  | 62.75 | 26.27 | 10.98 | 89.63 | 1.52 | 3.05  | 3.66  | 0.0  | 0.0  | 2.13 | 0.0  | 0.0   | 0.0  |
| 5.94  | 5  | —     | —     | —     | 78.33 | 4.64 | 0.31  | 5.57  | 0.0  | 1.86 | 7.74 | 0.0  | 0.0   | 0.31 |
| 6.4   | 6  | 9.20  | 27.69 | 63.11 | 43.73 | 0.96 | 1.29  | 2.89  | 0.96 | 0.0  | 0.0  | 0.96 | 4.5   | 22.6 |
| 6.8   | 7  | 0.77  | 57.31 | 41.92 | 81.17 | 3.57 | 3.57  | 2.60  | 2.60 | 0.97 | 0.65 | 0.0  | 4.22  | 0.32 |
| 7.62  | 8  | 12.74 | 74.75 | 12.51 | 66.67 | 4.58 | 3.27  | 23.2  | 0.0  | 0.0  | 0.65 | 0.0  | 0.0   | 0.0  |
| 8.4   | 9  | 38.20 | 38.59 | 23.21 | 73.79 | 2.27 | 4.21  | 17.48 | 0.0  | 0.0  | 0.97 | 0.0  | 1.29  | 0.0  |
| 8.95  | 10 | 8.74  | 69.72 | 21.54 | 50.15 | 0.62 | 5.23  | 39.38 | 0.0  | 0.62 | 0.0  | 1.54 | 1.23  | 0.0  |
| 9.45  | 11 | 2.46  | 68.53 | 29.01 | 27.04 | 0.0  | 29.56 | 25.47 | 0.0  | 0.63 | 0.0  | 0.94 | 13.52 | 0.0  |
| 10.40 | 12 | 4.62  | 62.43 | 32.95 | 56.83 | 0.31 | 9.32  | 4.35  | 0.0  | 0.0  | 0.0  | 0.0  | 35.09 | 0.0  |
| 10.98 | 13 | 77.44 | 12.26 | 10.30 | 93.16 | 2.28 | 0.0   | 0.33  | 0.0  | 0.0  | 0.65 | 0.0  | 3.58  | 0.0  |
| 11.6  | 14 | —     | —     | —     | 84.11 | 6.95 | 0.33  | 6.62  | 0.0  | 0.0  | 1.32 | 0.0  | 0.0   | 0.0  |
| 12.5  | 15 | 18.76 | 42.09 | 39.15 | 87.16 | 2.09 | 1.79  | 2.99  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 13.11 | 16 | 57.50 | 31.01 | 11.50 | 86.69 | 3.25 | 3.57  | 5.52  | 0.0  | 0.32 | 0.65 | 0.0  | 0.0   | 0.0  |
| 13.7  | 17 | 48.99 | 31.16 | 19.86 | 84.94 | 4.81 | 1.92  | 6.09  | 0.0  | 0.0  | 2.24 | 0.0  | 0.0   | 0.0  |
| 14.5  | 18 | —     | —     | —     | 85.76 | 5.18 | 2.27  | 2.59  | 0.0  | 0.0  | 2.59 | 0.0  | 0.0   | 0.0  |
| 16    | 19 | —     | —     | —     | 87.50 | 4.49 | 0.0   | 4.17  | 0.0  | 0.0  | 3.21 | 0.64 | 0.0   | 0.0  |
| 17.4  | 20 | —     | —     | —     | 85.76 | 9.29 | 0.31  | 1.86  | 0.0  | 0.93 | 1.55 | 0.0  | 0.0   | 0.0  |
| 18.35 | 21 | 30.98 | 19.50 | 49.51 | 92.03 | 3.12 | 0.0   | 0.31  | 0.0  | 1.87 | 0.93 | 0.0  | 0.0   | 0.0  |
| 18.8  | 22 | 49.12 | 27.54 | 23.34 | 93.57 | 0.96 | 0.32  | 3.22  | 0.0  | 0.0  | 0.96 | 0.96 | 0.0   | 0.0  |
| 19.1  | 23 | 72.76 | 20.76 | 6.48  | 96.33 | 2.67 | 0.33  | 0.67  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 19.44 | 24 | —     | —     | —     | 86.36 | 8.44 | 0.32  | 0.97  | 0.0  | 1.9  | 1.30 | 0.0  | 0.0   | 0.0  |
| 20.78 | 25 | —     | —     | —     | 85.53 | 8.68 | 0.32  | 2.25  | 0.0  | 0.0  | 2.89 | 0.0  | 0.0   | 0.0  |
| 22.11 | 26 | —     | —     | —     | 84.62 | 7.69 | 0.64  | 2.56  | 0.0  | 0.32 | 2.56 | 0.64 | 0.0   | 0.0  |
| 23.63 | 27 | —     | —     | —     | 91.22 | 3.13 | 0.0   | 2.19  | 0.0  | 1.25 | 1.25 | 0.63 | 0.0   | 0.0  |
| 25.16 | 28 | —     | —     | —     | 87.46 | 4.39 | 0.0   | 0.94  | 0.0  | 2.82 | 3.45 | 0.0  | 0.0   | 0.0  |
| 26.68 | 29 | —     | —     | —     | 89.97 | 6.08 | 0.0   | 1.52  | 0.0  | 0.3  | 2.13 | 0.0  | 0.0   | 0.0  |
| 28.21 | 30 | —     | —     | —     | 89.34 | 5.64 | 0.0   | 1.25  | 0.0  | 1.25 | 2.51 | 0.0  | 0.0   | 0.0  |
| 29.73 | 31 | —     | —     | —     | 96.46 | 1.61 | 0.0   | 0.0   | 0.0  | 0.0  | 1.61 | 0.0  | 0.0   | 0.0  |

## APPENDIX 2.—Continued.

## CORE S46

| DEPTH | NO | SAND | SILT | CLAY | LT    | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB |
|-------|----|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| 31.11 | 32 | -    | -    | -    | 96.72 | 1.64 | 0.33 | 0.33 | 0.0  | 0.0  | 0.98 | 0.0  | 0.0  | 0.0  |
| 32.63 | 33 | -    | -    | -    | 89.07 | 6.43 | 0.32 | 2.25 | 0.0  | 0.64 | 0.64 | 0.64 | 0.0  | 0.0  |
| 34.31 | 34 | -    | -    | -    | 94.29 | 4.44 | 0.0  | 0.63 | 0.0  | 0.0  | 0.32 | 0.0  | 0.32 | 0.0  |
| 35.83 | 35 | -    | -    | -    | 95.92 | 2.82 | 0.0  | 1.25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.36 | 36 | -    | -    | -    | 98.02 | 0.99 | 0.0  | 0.33 | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  |
| 38.89 | 37 | -    | -    | -    | 97.68 | 0.66 | 0.0  | 0.0  | 0.0  | 0.33 | 0.66 | 0.0  | 0.0  | 0.0  |
| 40.41 | 38 | -    | -    | -    | 97.07 | 1.63 | 0.0  | 0.33 | 0.0  | 0.0  | 0.33 | 0.33 | 0.0  | 0.0  |
| 41.94 | 39 | -    | -    | -    | 93.44 | 3.75 | 0.0  | 0.31 | 0.0  | 0.31 | 1.56 | 0.0  | 0.0  | 0.0  |
| 43.46 | 40 | -    | -    | -    | 92.83 | 4.98 | 0.0  | 1.25 | 0.0  | 0.31 | 0.31 | 0.0  | 0.0  | 0.0  |
| 44.99 | 41 | -    | -    | -    | 93.07 | 4.62 | 0.0  | 0.66 | 0.0  | 0.33 | 0.99 | 0.0  | 0.0  | 0.0  |



**CORE S46**

[illegible]

## APPENDIX 2.—Continued.

| CORE S46 |    | CARBON-14 |      |      |      |      |      |      |      |     |
|----------|----|-----------|------|------|------|------|------|------|------|-----|
| DEPTH    | NO | GSHF      | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | DIAT | OTH |
| 31.11    | 32 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 32.63    | 33 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 34.31    | 34 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 35.83    | 35 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 37.36    | 36 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 38.89    | 37 | 0.0       | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 40.41    | 38 | 0.0       | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 41.94    | 39 | 0.0       | 0.0  | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 43.46    | 40 | 0.0       | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |
| 44.99    | 41 | 0.0       | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 |

## APPENDIX 2.—Continued.

## CORE S47

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT  | EVAP | LITH | AGG   | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| surf  | 1  | 61.48 | 2.65  | 35.86 | 86.00 | 12.33 | 0.0   | 1.33  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |
| 1.46  | 2  | 95.45 | 0.71  | 3.84  | 86.09 | 11.92 | 0.33  | 0.0   | 1.33  | 0.0  | 0.0  | 0.0   | 0.0   | 0.33 |
| 1.78  | 39 | 19.20 | 16.65 | 64.15 | 67.00 | 5.67  | 4.00  | 5.00  | 0.0   | 0.0  | 4.67 | 0.0   | 0.67  | 4.34 |
| 3.05  | 3  | 75.36 | 12.97 | 11.67 | 68.63 | 2.94  | 6.21  | 20.26 | 0.33  | 0.0  | 0.0  | 0.0   | 0.65  | 0.0  |
| 3.50  | 4  | 67.38 | 16.15 | 16.47 | 73.36 | 5.59  | 2.3   | 9.87  | 1.31  | 0.0  | 0.0  | 0.0   | 0.99  | 1.32 |
| 3.97  | 40 | 12.72 | 19.60 | 67.67 | 74.84 | 1.91  | 5.73  | 4.46  | 0.0   | 0.0  | 0.0  | 0.0   | 6.06  | 2.23 |
| 5.33  | 5  | 68.32 | 11.13 | 20.55 | 87.42 | 4.3   | 0.0   | 0.99  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 1.55 |
| 6.25  | 6  | 89.01 | 5.27  | 5.73  | 83.33 | 9.33  | 2.00  | 4.67  | 0.33  | 0.0  | 0.0  | 0.0   | 0.0   | 0.33 |
| 6.93  | 7  | 87.60 | 5.90  | 6.49  | 74.67 | 9.54  | 2.63  | 4.60  | 0.0   | 0.0  | 0.0  | 0.0   | 0.99  | 0.99 |
| 7.63  | 41 | 43.02 | 32.89 | 24.10 | 75.16 | 1.59  | 3.82  | 18.15 | 0.0   | 0.0  | 0.0  | 0.0   | 0.64  | 0.0  |
| 8.54  | 8  | 32.09 | 32.73 | 35.18 | 69.54 | 8.94  | 5.3   | 9.6   | 1.65  | 0.0  | 0.0  | 0.0   | 4.3   | 0.0  |
| 10.06 | 9  | 26.18 | 41.68 | 32.14 | 73.10 | 10.76 | 5.70  | 2.53  | 0.0   | 0.0  | 0.0  | 0.0   | 3.48  | 0.0  |
| 10.83 | 42 | 39.45 | 39.17 | 21.39 | 63.92 | 3.08  | 8.54  | 22.78 | 0.0   | 0.0  | 0.0  | 0.0   | 0.63  | 0.0  |
| 11.59 | 10 | 19.98 | 46.21 | 33.81 | 70.33 | 11.67 | 6.67  | 0.0   | 2.33  | 0.0  | 0.62 | 0.31  | 3.33  | 0.0  |
| 12.35 | 43 | 15.36 | 54.43 | 30.21 | 59.63 | 3.73  | 11.49 | 22.36 | 0.0   | 0.0  | 0.0  | 0.0   | 0.62  | 0.0  |
| 13.11 | 11 | 8.58  | 54.76 | 36.67 | 59.22 | 4.85  | 10.03 | 15.53 | 1.79  | 0.0  | 0.0  | 0.0   | 2.26  | 0.0  |
| 13.85 | 44 | 10.91 | 53.41 | 35.68 | 47.49 | 1.47  | 12.98 | 31.56 | 0.0   | 0.0  | 0.0  | 0.0   | 4.13  | 0.0  |
| 14.64 | 12 | 1.82  | 55.49 | 42.69 | 27.00 | 3.00  | 29.33 | 17.00 | 0.67  | 0.59 | 9.87 | 0.0   | 13.77 | 0.0  |
| 16.16 | 13 | 6.37  | 45.78 | 47.84 | 19.08 | 2.63  | 15.13 | 19.41 | 2.96  | 0.0  | 9.87 | 0.0   | 22.03 | 0.0  |
| 16.99 | 45 | 12.07 | 51.69 | 36.24 | 13.55 | 0.97  | 20.32 | 3.87  | 13.23 | 0.0  | 0.0  | 32.26 | 12.9  | 0.0  |
| 17.69 | 14 | 6.76  | 42.36 | 50.88 | 38.74 | 2.98  | 10.93 | 15.89 | 0.66  | 0.0  | 0.0  | 4.3   | 20.19 | 0.0  |
| 19.25 | 15 | 1.62  | 43.93 | 54.46 | 35.26 | 0.64  | 24.36 | 10.9  | 2.88  | 0.0  | 0.0  | 0.0   | 16.99 | 0.0  |
| 20.74 | 16 | 4.69  | 25.43 | 69.88 | 77.07 | 0.0   | 0.0   | 1.59  | 19.11 | 0.0  | 0.0  | 0.0   | 2.23  | 0.0  |
| 22.11 | 17 | 8.29  | 70.00 | 21.71 | 43.13 | 0.64  | 0.0   | 0.32  | 0.0   | 0.0  | 0.0  | 45.05 | 0.64  | 0.64 |
| 22.96 | 46 | 85.22 | 4.81  | 9.97  | 95.39 | 1.32  | 0.0   | 0.33  | 0.0   | 0.0  | 0.66 | 0.0   | 0.0   | 0.0  |
| 23.18 | 18 | 7.09  | 39.51 | 53.40 | 77.67 | 2.91  | 7.12  | 11.97 | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |
| 24.09 | 19 | 77.77 | 9.87  | 12.36 | 86.35 | 1.27  | 1.9   | 9.20  | 0.63  | 0.0  | 0.64 | 0.0   | 0.0   | 0.0  |
| 24.70 | 20 | 10.15 | 31.13 | 58.72 | 83.54 | 2.22  | 2.85  | 9.81  | 0.0   | 0.0  | 1.58 | 0.0   | 0.0   | 0.0  |
| 25.62 | 21 | 40.83 | 30.53 | 28.65 | 81.23 | 1.94  | 3.56  | 11.65 | 0.0   | 0.0  | 1.62 | 0.0   | 0.0   | 0.0  |
| 26.53 | 22 | 6.29  | 48.69 | 45.02 | 71.75 | 2.86  | 9.21  | 14.28 | 0.0   | 0.0  | 1.9  | 0.0   | 0.0   | 0.0  |
| 27.45 | 23 | 70.65 | 16.39 | 12.96 | 89.39 | 9.00  | 0.0   | 0.63  | 0.0   | 0.0  | 0.99 | 0.0   | 0.0   | 0.0  |

## APPENDIX 2.—Continued.

## CORE S47

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | PYRT | EVAP | LITH | AGG  | PLTM | FORB |
|-------|----|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 28.36 | 24 | 10.12 | 46.54 | 43.34 | 82.08 | 7.5   | 3.58 | 5.86 | 0.0  | 0.0  | 0.98 | 0.0  | 0.0  | 0.0  |
| 29.28 | 25 | 24.31 | 43.41 | 32.28 | 69.84 | 16.39 | 5.57 | 7.21 | 0.0  | 0.0  | 0.98 | 0.0  | 0.0  | 0.0  |
| 29.89 | 26 | 1.08  | 2.77  | 96.15 | 81.09 | 4.81  | 0.0  | 0.64 | 0.0  | 0.0  | 3.2  | 0.0  | 0.0  | 0.0  |
| 30.80 | 27 | 33.10 | 29.46 | 37.44 | 82.77 | 4.92  | 1.85 | 0.92 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 31.72 | 28 | 7.06  | 39.08 | 53.86 | 86.69 | 7.74  | 1.54 | 2.79 | 0.0  | 0.0  | 1.24 | 0.0  | 0.0  | 0.0  |
| 33.09 | 29 | 0.12  | 28.65 | 71.23 | 91.05 | 3.19  | 0.0  | 3.83 | 0.0  | 0.0  | 1.28 | 0.32 | 0.0  | 0.0  |
| 34.31 | 30 | 7.86  | 29.85 | 62.29 | 92.06 | 2.54  | 0.0  | 0.0  | 0.0  | 0.0  | 5.4  | 0.0  | 0.0  | 0.0  |
| 35.22 | 31 | 15.63 | 28.03 | 56.34 | 95.48 | 2.90  | 0.0  | 0.0  | 0.0  | 0.0  | 1.62 | 0.0  | 0.0  | 0.0  |
| 35.38 | 32 | 89.83 | 3.81  | 6.37  | 85.99 | 5.86  | 0.65 | 6.51 | 0.0  | 0.0  | 0.98 | 0.0  | 0.0  | 0.0  |
| 36.29 | 33 | 1.39  | 35.98 | 62.62 | 88.04 | 6.31  | 0.0  | 5.32 | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  |
| 37.36 | 34 | 9.53  | 12.04 | 78.43 | 66.12 | 6.25  | 0.0  | 0.66 | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 9.87 |
| 37.82 | 35 | 89.89 | 3.61  | 6.50  | 92.03 | 2.67  | 3.99 | 0.0  | 0.0  | 0.0  | 1.32 | 0.0  | 0.0  | 0.0  |
| 38.96 | 36 | 95.04 | 1.81  | 3.15  | 90.76 | 4.29  | 0.66 | 3.30 | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  |
| 40.41 | 37 | 94.27 | 2.23  | 3.50  | 82.47 | 7.47  | 0.65 | 5.84 | 0.0  | 0.0  | 3.57 | 0.0  | 0.0  | 0.0  |
| 41.93 | 38 | 91.29 | 3.44  | 5.27  | 83.77 | 9.74  | 0.32 | 4.22 | 0.0  | 0.0  | 1.95 | 0.0  | 0.0  | 0.0  |







## APPENDIX 2.—Continued.

## CORE S48

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT  | LITH | AGG   | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|------|
| surf  | 1  | 92.75 | 0.0   | 7.25  | 80.78 | 16.61 | 0.0   | 0.0   | 0.0   | 2.61 | 0.0   | 0.0   | 0.0  |
| 0.76  | 2  | -     | -     | -     | 84.88 | 11.73 | 0.0   | 0.0   | 0.0   | 3.39 | 0.0   | 0.0   | 0.0  |
| 1.83  | 3  | -     | -     | -     | 82.41 | 15.31 | 0.0   | 1.30  | 0.0   | 0.98 | 0.0   | 0.0   | 0.0  |
| 2.3   | 31 | 25.92 | 48.63 | 25.45 | 59.75 | 4.09  | 12.89 | 15.72 | 0.0   | 0.94 | 0.63  | 0.94  | 0.94 |
| 3.66  | 4  | 26.74 | 46.67 | 26.59 | 64.37 | 0.0   | 5.69  | 26.35 | 0.9   | 0.0  | 0.0   | 1.78  | 0.3  |
| 4.27  | 32 | 66.16 | 12.00 | 21.84 | 41.32 | 1.2   | 5.39  | 4.79  | 0.0   | 0.0  | 0.0   | 41.92 | 2.4  |
| 5.18  | 5  | 4.39  | 56.35 | 39.26 | 47.73 | 0.97  | 8.77  | 11.69 | 1.62  | 0.65 | 0.0   | 24.02 | 0.65 |
| 6.71  | 6  | 0.92  | 69.34 | 29.74 | 7.77  | 0.32  | 44.66 | 0.0   | 0.97  | 0.0  | 0.65  | 31.72 | 1.94 |
| 7.53  | 33 | 42.38 | 23.88 | 33.74 | 19.64 | 1.02  | 0.77  | 1.02  | 0.0   | 0.0  | 0.51  | 62.5  | 0.0  |
| 8.23  | 7  | 22.35 | 24.40 | 53.24 | 12.65 | 0.0   | 0.0   | 0.32  | 1.9   | 0.0  | 2.22  | 57.91 | 0.32 |
| 9.76  | 8  | 7.75  | 44.80 | 47.46 | 47.67 | 1.00  | 2.00  | 3.33  | 1.00  | 0.0  | 0.0   | 40.33 | 1.7  |
| 10.52 | 34 | 18.98 | 33.23 | 47.78 | 3.70  | 0.0   | 6.48  | 0.0   | 0.0   | 0.31 | 88.27 | 0.0   | 0.31 |
| 11.28 | 9  | 0.37  | 40.64 | 58.99 | 55.48 | 3.55  | 0.64  | 0.0   | 0.97  | 1.29 | 19.03 | 11.93 | 6.13 |
| 12.81 | 10 | 3.35  | 28.10 | 68.54 | 35.65 | 0.95  | 0.31  | 0.63  | 23.34 | 0.0  | 2.21  | 2.21  | 1.89 |
| 15.86 | 11 | 25.28 | 41.60 | 33.12 | 2.90  | 0.0   | 0.0   | 0.0   | 0.97  | 0.0  | 0.0   | 72.26 | 0.0  |
| 15.95 | 12 | -     | -     | -     | 85.71 | 11.14 | 0.0   | 0.86  | 0.0   | 2.28 | 0.0   | 0.0   | 0.0  |
| 16.62 | 13 | -     | -     | -     | 94.94 | 3.16  | 0.0   | 0.0   | 0.32  | 1.89 | 0.0   | 0.0   | 0.0  |
| 18.14 | 14 | -     | -     | -     | 91.35 | 5.13  | 0.0   | 2.56  | 0.96  | 0.0  | 0.0   | 0.0   | 0.0  |
| 19.67 | 15 | -     | -     | -     | 90.76 | 2.97  | 0.0   | 0.0   | 0.0   | 1.65 | 0.0   | 0.0   | 0.0  |
| 21.19 | 16 | -     | -     | -     | 43.29 | 7.72  | 0.0   | 0.33  | 0.67  | 1.68 | 0.0   | 0.0   | 0.0  |
| 22.72 | 17 | -     | -     | -     | 90.38 | 2.56  | 0.32  | 0.96  | 0.0   | 0.64 | 0.0   | 0.0   | 0.0  |
| 24.24 | 18 | -     | -     | -     | 82.51 | 8.91  | 0.66  | 5.28  | 0.66  | 1.98 | 0.0   | 0.0   | 0.0  |
| 25.77 | 19 | -     | -     | -     | 92.65 | 5.11  | 0.32  | 1.28  | 0.0   | 0.64 | 0.0   | 0.0   | 0.0  |
| 27.29 | 20 | -     | -     | -     | 88.12 | 8.91  | 0.0   | 0.66  | 0.99  | 1.32 | 0.0   | 0.0   | 0.0  |
| 28.82 | 21 | -     | -     | -     | 88.10 | 8.04  | 0.0   | 2.89  | 0.0   | 0.96 | 0.0   | 0.0   | 0.0  |
| 30.34 | 22 | -     | -     | -     | 90.55 | 6.51  | 0.0   | 0.65  | 0.0   | 2.28 | 0.0   | 0.0   | 0.0  |
| 31.87 | 23 | -     | -     | -     | 84.26 | 10.49 | 0.33  | 3.28  | 0.0   | 1.64 | 0.0   | 0.0   | 0.0  |
| 33.39 | 24 | -     | -     | -     | 87.91 | 4.57  | 0.33  | 5.23  | 0.33  | 1.63 | 0.0   | 0.0   | 0.0  |
| 34.92 | 25 | -     | -     | -     | 71.85 | 25.16 | 0.33  | 1.65  | 0.0   | 0.99 | 0.0   | 0.0   | 0.0  |
| 36.44 | 26 | -     | -     | -     | 87.30 | 9.91  | 0.0   | 1.55  | 0.0   | 1.24 | 0.0   | 0.0   | 0.0  |
| 37.97 | 27 | -     | -     | -     | 88.34 | 9.62  | 0.0   | 0.87  | 0.0   | 1.17 | 0.0   | 0.0   | 0.0  |
| 39.95 | 28 | -     | -     | -     | 84.38 | 11.29 | 0.0   | 0.99  | 0.0   | 3.32 | 0.0   | 0.0   | 0.0  |
| 41.02 | 29 | -     | -     | -     | 90.8  | 6.29  | 0.0   | 1.45  | 0.0   | 1.45 | 0.0   | 0.0   | 0.0  |
| 42.54 | 30 | -     | -     | -     | 90.03 | 6.85  | 0.0   | 0.0   | 0.0   | 3.12 | 0.0   | 0.0   | 0.0  |





## APPENDIX 2.—Continued.

## CORE S49

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT | EVAP | LITH | AGG   | PLTM  | FORP |
|-------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|
| surf  | 1  | 93.15 | 3.38  | 3.46  | 80.25 | 14.97 | 0.32  | 0.64  | 0.0  | 0.0  | 3.82 | 0.0   | 0.0   | 0.0  |
| 0.76  | 2  | -     | -     | -     | 78.79 | 19.62 | 0.0   | 0.0   | 0.0  | 0.0  | 1.58 | 0.0   | 0.0   | 0.0  |
| 2.28  | 3  | -     | -     | -     | 82.82 | 9.81  | 0.0   | 1.23  | 0.0  | 0.0  | 6.13 | 0.0   | 0.0   | 0.0  |
| 3.81  | 4  | -     | -     | -     | 75.08 | 19.09 | 0.0   | 0.65  | 0.0  | 0.0  | 4.53 | 0.0   | 0.0   | 0.0  |
| 5.33  | 5  | -     | -     | -     | 84.02 | 9.58  | 0.0   | 1.60  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 1.28 |
| 6.2   | 33 | 2.39  | 61.65 | 35.96 | 34.38 | 1.14  | 21.88 | 20.74 | 0.0  | 0.0  | 0.0  | 0.85  | 17.62 | 0.57 |
| 7.62  | 6  | 13.82 | 51.71 | 34.37 | 18.79 | 0.91  | 12.42 | 60.91 | 2.42 | 0.0  | 0.0  | 0.0   | 1.82  | 0.61 |
| 9.15  | 7  | 2.06  | 60.25 | 37.69 | 23.58 | 0.6   | 31.94 | 36.12 | 0.9  | 0.0  | 0.0  | 0.0   | 2.68  | 0.6  |
| 10.37 | 8  | 1.45  | 67.07 | 31.47 | 3.35  | 0.0   | 36.89 | 5.79  | 1.83 | 0.0  | 0.0  | 0.0   | 39.63 | 0.61 |
| 11.28 | 9  | 3.60  | 66.38 | 30.03 | 5.68  | 0.0   | 15.14 | 0.63  | 8.52 | 0.0  | 0.0  | 0.0   | 61.51 | 0.0  |
| 12.2  | 10 | 91.82 | 0.30  | 7.88  | 5.16  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 92.55 | 0.0  |
| 13.11 | 34 | 4.63  | 49.44 | 45.93 | 37.50 | 1.56  | 24.06 | 10.63 | 0.0  | 0.0  | 0.63 | 5.31  | 18.64 | 0.0  |
| 14.03 | 11 | 2.68  | 55.03 | 42.30 | 21.5  | 1.3   | 24.43 | 13.68 | 0.0  | 0.0  | 0.0  | 0.0   | 33.21 | 0.0  |
| 14.61 | 35 | 2.74  | 46.56 | 50.70 | 31.80 | 1.31  | 18.69 | 7.54  | 0.0  | 0.0  | 0.0  | 12.79 | 27.21 | 0.0  |
| 15.55 | 12 | 82.11 | 11.01 | 6.88  | 91.51 | 5.34  | 0.0   | 1.26  | 0.0  | 0.0  | 1.88 | 0.0   | 0.0   | 0.0  |
| 16.16 | 13 | -     | -     | -     | 92.21 | 3.11  | 0.0   | 0.93  | 0.0  | 0.0  | 2.80 | 0.0   | 0.0   | 0.0  |
| 17.53 | 14 | -     | -     | -     | 91.27 | 6.04  | 0.0   | 1.00  | 0.0  | 0.0  | 0.67 | 0.0   | 0.0   | 0.0  |
| 19.06 | 15 | -     | -     | -     | 91.25 | 5.94  | 0.0   | 0.0   | 0.0  | 0.0  | 1.87 | 0.0   | 0.0   | 0.0  |
| 20.58 | 16 | -     | -     | -     | 84.4  | 13.65 | 0.0   | 0.0   | 0.0  | 0.0  | 1.59 | 0.0   | 0.0   | 0.0  |
| 22.11 | 17 | -     | -     | -     | 85.67 | 8.28  | 0.32  | 0.0   | 0.32 | 0.0  | 3.82 | 0.0   | 0.0   | 0.32 |
| 23.63 | 18 | -     | -     | -     | 88.39 | 8.71  | 0.0   | 0.0   | 0.0  | 0.0  | 1.61 | 0.0   | 0.0   | 0.0  |
| 24.70 | 19 | -     | -     | -     | 83.39 | 9.63  | 0.33  | 1.66  | 1.00 | 0.66 | 2.65 | 0.0   | 0.0   | 0.0  |
| 25.31 | 20 | -     | -     | -     | 75.4  | 11.97 | 0.32  | 4.53  | 0.65 | 1.29 | 2.91 | 0.0   | 0.0   | 0.0  |
| 25.62 | 21 | 14.94 | 19.62 | 65.44 | 80.77 | 4.81  | 0.0   | 0.0   | 0.0  | 0.64 | 4.81 | 0.0   | 1.60  | 0.0  |
| 26.23 | 22 | 66.74 | 20.23 | 13.03 | 85.32 | 3.05  | 1.11  | 6.92  | 0.0  | 0.0  | 3.6  | 0.0   | 0.0   | 0.0  |
| 26.84 | 23 | -     | -     | -     | 81.67 | 9.00  | 0.0   | 0.96  | 0.0  | 0.0  | 6.75 | 0.0   | 0.0   | 0.0  |
| 28.21 | 24 | -     | -     | -     | 82.59 | 6.64  | 0.0   | 0.95  | 0.0  | 0.63 | 3.80 | 0.0   | 0.0   | 0.32 |
| 29.73 | 25 | -     | -     | -     | 74.92 | 20.85 | 0.0   | 0.32  | 0.0  | 0.0  | 1.95 | 0.0   | 0.0   | 0.0  |
| 31.26 | 26 | -     | -     | -     | 83.07 | 11.18 | 0.0   | 0.96  | 0.0  | 0.0  | 3.83 | 0.0   | 0.0   | 0.0  |
| 32.78 | 27 | -     | -     | -     | 88.22 | 6.37  | 0.95  | 0.0   | 0.0  | 0.0  | 4.46 | 0.0   | 0.0   | 0.0  |
| 34.31 | 28 | -     | -     | -     | 90.54 | 3.15  | 0.0   | 0.31  | 0.0  | 0.95 | 2.52 | 0.0   | 0.0   | 0.0  |
| 35.83 | 29 | -     | -     | -     | 89.21 | 4.76  | 0.0   | 0.32  | 0.0  | 0.0  | 5.71 | 0.0   | 0.0   | 0.0  |
| 37.36 | 30 | -     | -     | -     | 88.27 | 3.91  | 0.0   | 0.0   | 0.0  | 0.65 | 5.86 | 0.0   | 0.0   | 0.0  |
| 38.88 | 31 | -     | -     | -     | 79.05 | 18.41 | 0.0   | 1.27  | 0.0  | 0.0  | 1.27 | 0.0   | 0.0   | 0.0  |
| 40.41 | 32 | -     | -     | -     | 80.06 | 12.58 | 0.0   | 0.61  | 0.0  | 1.84 | 2.15 | 0.0   | 0.0   | 0.0  |



## APPENDIX 2.—Continued.

## CORE S50

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT  | EVAP | LITH | AGG   | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| surf  | 1  | 92.94 | 3.63  | 3.43  | 81.40 | 16.46 | 0.0   | 0.0   | 0.0   | 0.0  | 2.13 | 0.0   | 0.0   | 0.0  |
| 0.76  | 2  | —     | —     | —     | 83.11 | 13.91 | 0.0   | 0.66  | 0.0   | 0.0  | 1.99 | 0.0   | 0.0   | 0.0  |
| 2.28  | 3  | —     | —     | —     | 84.06 | 10.31 | 0.94  | 0.94  | 0.0   | 0.0  | 2.81 | 0.0   | 0.62  | 0.0  |
| 3.81  | 4  | —     | —     | —     | 80.97 | 10.57 | 0.0   | 1.51  | 0.0   | 0.0  | 3.93 | 0.0   | 0.6   | 0.0  |
| 4.7   | 32 | 3.39  | 58.98 | 37.63 | 34.09 | 11.32 | 11.95 | 30.82 | 3.77  | 0.63 | 0.94 | 0.63  | 3.14  | 0.0  |
| 6.1   | 5  | 45.98 | 34.26 | 19.76 | 62.93 | 1.60  | 3.83  | 30.35 | 0.0   | 0.0  | 1.28 | 0.0   | 0.0   | 0.0  |
| 6.55  | 6  | 57.21 | 21.48 | 21.30 | 68.83 | 0.62  | 4.01  | 24.69 | 0.0   | 0.0  | 0.92 | 0.0   | 0.62  | 0.0  |
| 6.91  | 7  | —     | —     | —     | 64.01 | 0.88  | 1.18  | 30.09 | 0.59  | 0.0  | 0.0  | 0.0   | 0.29  | 0.29 |
| 7.32  | 8  | 9.61  | 74.47 | 15.92 | 49.18 | 0.98  | 12.46 | 31.47 | 0.0   | 0.0  | 0.65 | 0.98  | 1.31  | 0.0  |
| 8.84  | 9  | 61.45 | 16.96 | 21.58 | 15.36 | 0.0   | 0.63  | 0.31  | 0.31  | 0.0  | 0.0  | 0.0   | 77.11 | 0.0  |
| 9.6   | 33 | 37.90 | 10.99 | 51.11 | 1.28  | 0.0   | 0.0   | 0.0   | 0.64  | 0.0  | 0.0  | 0.0   | 97.76 | 0.0  |
| 10.67 | 10 | 2.44  | 45.97 | 51.59 | 41.03 | 1.03  | 4.83  | 3.10  | 10.34 | 0.0  | 0.69 | 0.0   | 37.93 | 0.0  |
| 11.44 | 34 | 19.67 | 40.26 | 40.07 | 64.01 | 4.78  | 5.73  | 21.66 | 0.0   | 0.0  | 1.91 | 0.0   | 0.96  | 0.0  |
| 12.2  | 11 | 69.11 | 14.44 | 16.45 | 78.95 | 2.17  | 0.93  | 8.98  | 0.0   | 0.0  | 8.36 | 0.0   | 0.62  | 0.0  |
| 13.26 | 12 | 32.13 | 42.29 | 25.57 | 72.85 | 1.71  | 2.28  | 19.71 | 0.0   | 0.0  | 1.71 | 0.86  | 0.0   | 0.0  |
| 14.26 | 35 | 34.62 | 34.92 | 30.46 | 61.44 | 13.73 | 6.21  | 11.11 | 0.0   | 0.33 | 3.59 | 0.0   | 2.61  | 0.0  |
| 15.25 | 13 | 16.51 | 49.98 | 33.52 | 74.4  | 3.01  | 3.61  | 14.16 | 0.0   | 0.0  | 3.01 | 0.0   | 1.20  | 0.0  |
| 16.77 | 14 | 7.66  | 38.00 | 54.34 | 6.93  | 0.0   | 0.0   | 0.33  | 0.0   | 0.0  | 0.0  | 23.76 | 58.41 | 0.0  |
| 18.3  | 15 | 3.93  | 61.54 | 34.53 | 54.4  | 0.65  | 10.75 | 15.63 | 0.0   | 0.0  | 0.0  | 1.3   | 15.31 | 0.0  |
| 19.06 | 36 | 13.43 | 42.25 | 44.32 | 31.72 | 0.65  | 5.18  | 1.29  | 0.0   | 0.0  | 0.0  | 52.10 | 7.12  | 0.0  |
| 19.82 | 16 | 4.96  | 63.11 | 31.93 | 67.28 | 0.0   | 4.01  | 20.99 | 0.0   | 0.0  | 0.0  | 0.0   | 6.17  | 0.0  |
| 20.75 | 37 | 20.45 | 37.16 | 42.39 | 7.17  | 0.0   | 1.95  | 0.65  | 0.0   | 0.0  | 0.0  | 85.34 | 3.91  | 0.0  |
| 21.35 | 17 | 3.98  | 61.88 | 34.14 | 10.47 | 0.0   | 2.86  | 0.63  | 0.0   | 0.0  | 0.0  | 77.46 | 7.3   | 0.0  |
| 22.87 | 18 | 4.08  | 52.00 | 43.91 | 21.27 | 0.63  | 9.20  | 0.63  | 0.0   | 0.0  | 0.0  | 55.55 | 12.06 | 0.0  |
| 23    | 19 | 0.37  | 54.94 | 44.70 | 35.44 | 0.0   | 20.00 | 0.0   | 0.0   | 0.0  | 0.0  | 1.05  | 39.65 | 0.0  |
| 24.24 | 20 | 42.82 | 37.90 | 19.28 | 8.67  | 0.33  | 1.00  | 0.0   | 0.0   | 0.0  | 0.0  | 2.67  | 84.67 | 0.0  |
| 24.70 | 21 | 9.39  | 39.15 | 51.46 | 93.75 | 1.25  | 0.31  | 0.62  | 0.0   | 0.0  | 0.94 | 0.0   | 1.25  | 0.0  |
| 24.92 | 38 | 8.69  | 39.99 | 51.31 | 81.29 | 1.61  | 3.87  | 2.9   | 0.97  | 0.65 | 0.65 | 0.0   | 0.0   | 0.0  |
| 26    | 39 | 23.03 | 42.35 | 34.62 | 80.06 | 1.93  | 3.54  | 11.90 | 0.0   | 0.64 | 1.93 | 0.0   | 0.0   | 0.0  |
| 26.84 | 22 | 35.48 | 33.79 | 30.73 | 80.49 | 3.40  | 3.40  | 10.53 | 0.93  | 0.0  | 1.24 | 0.0   | 0.0   | 0.0  |
| 27.90 | 23 | —     | —     | —     | 92.88 | 3.09  | 0.0   | 1.55  | 0.0   | 0.0  | 2.47 | 0.0   | 0.0   | 0.0  |
| 29.74 | 24 | —     | —     | —     | 92.38 | 5.79  | 0.0   | 0.3   | 0.0   | 0.0  | 0.91 | 0.0   | 0.0   | 0.0  |
| 31.26 | 25 | —     | —     | —     | 93.77 | 2.95  | 0.33  | 0.98  | 0.0   | 0.0  | 1.97 | 0.0   | 0.0   | 0.0  |

## APPENDIX 2.—Continued.

## CORE S50

| DEPTH | NO | SAND | SILT | CLAY | LT    | HVY  | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB |
|-------|----|------|------|------|-------|------|------|------|------|------|------|-----|------|------|
| 32.78 | 26 | —    | —    | —    | 94.23 | 3.52 | 0.0  | 0.96 | 0.0  | 0.0  | 0.64 | 0.0 | 0.0  | 0.0  |
| 34.31 | 27 | —    | —    | —    | 92.13 | 4.59 | 0.0  | 0.33 | 0.0  | 0.0  | 2.62 | 0.0 | 0.0  | 0.0  |
| 35.83 | 28 | —    | —    | —    | 98.05 | 1.62 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0 | 0.0  | 0.0  |
| 37.36 | 29 | —    | —    | —    | 93.81 | 2.60 | 0.0  | 0.32 | 0.0  | 0.0  | 3.25 | 0.0 | 0.0  | 0.0  |
| 38.88 | 30 | —    | —    | —    | 93.46 | 3.92 | 0.0  | 0.33 | 0.0  | 0.0  | 2.29 | 0.0 | 0.0  | 0.0  |
| 40.41 | 31 | —    | —    | —    | 96.71 | 0.99 | 0.33 | 0.0  | 0.0  | 0.0  | 1.97 | 0.0 | 0.0  | 0.0  |







## APPENDIX 2.—Continued.

| CORE S51 |    | DEPTH | NO    | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | PYRT | EVAP | LITH | AGG   | PLTM  | FORB |
|----------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|------|
| 0.38     | 27 | 17.27 | 51.79 | 30.94 | 28.53 | 2.51  | 3.76  | 2.51  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 61.44 | 1.25  | 0.0  |
| 1.52     | 1  | 6.39  | 58.61 | 35.00 | 57.72 | 2.78  | 5.25  | 16.98 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.74 | 0.93  | 0.0  |
| 2.75     | 2  | 22.07 | 41.19 | 36.74 | 74.84 | 2.8   | 1.55  | 16.46 | 0.0  | 0.0  | 0.0  | 0.0  | 3.11 | 0.62  | 0.62  | 0.0  |
| 4.27     | 3  | 0.58  | 22.93 | 76.49 | 74.27 | 1.95  | 4.89  | 8.47  | 0.65 | 0.0  | 0.0  | 0.0  | 0.0  | 2.93  | 6.19  | 0.66 |
| 4.37     | 28 | 1.93  | 14.16 | 83.91 | 48.87 | 2.25  | 5.79  | 40.84 | 0.0  | 0.0  | 0.0  | 0.0  | 0.64 | 1.29  | 0.32  | 0.0  |
| 5.60     | 29 | 10.20 | 7.55  | 82.25 | 3.26  | 0.65  | 1.63  | 1.95  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 92.51 | 0.0  |
| 6.1      | 4  | 5.81  | 29.17 | 65.03 | 81.15 | 3.51  | 1.92  | 9.27  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.96  | 1.28  | 0.0  |
| 6.84     | 30 | 1.39  | 20.89 | 77.72 | 48.71 | 0.97  | 4.84  | 24.19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.65  | 20.65 | 0.0  |
| 7.63     | 5  | 3.40  | 50.00 | 46.60 | 69.54 | 0.62  | 5.23  | 16.00 | 6.15 | 0.0  | 0.0  | 0.0  | 0.31 | 0.62  | 0.92  | 0.0  |
| 8.38     | 31 | 7.60  | 48.47 | 43.93 | 64.01 | 2.23  | 7.64  | 17.20 | 2.23 | 0.0  | 0.0  | 0.0  | 0.64 | 0.0   | 4.14  | 0.0  |
| 9.15     | 6  | 9.24  | 51.92 | 38.85 | 73.86 | 1.2   | 3.36  | 16.07 | 0.48 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0   | 1.92  | 0.0  |
| 10.68    | 7  | 3.03  | 57.44 | 39.53 | 70.30 | 0.66  | 8.91  | 13.53 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.99  | 2.64  | 0.0  |
| 11.23    | 32 | 7.00  | 51.82 | 41.18 | 67.51 | 3.47  | 11.36 | 10.09 | 0.63 | 0.0  | 0.0  | 0.0  | 1.89 | 0.0   | 3.15  | 0.0  |
| 12.3     | 33 | 19.88 | 43.82 | 36.30 | 76.92 | 3.21  | 4.49  | 9.29  | 0.0  | 0.0  | 0.0  | 0.0  | 1.60 | 0.0   | 4.17  | 0.0  |
| 13.12    | 8  | 75.02 | 17.93 | 7.05  | 83.96 | 7.86  | 1.26  | 5.66  | 0.0  | 0.0  | 0.0  | 0.0  | 1.26 | 0.0   | 0.0   | 0.0  |
| 14.03    | 9  | -     | -     | -     | 81.21 | 11.78 | 0.32  | 3.82  | 0.0  | 0.32 | 0.0  | 0.32 | 2.23 | 0.32  | 0.0   | 0.0  |
| 15.86    | 10 | -     | -     | -     | 84.66 | 4.15  | 0.0   | 5.75  | 0.0  | 2.24 | 0.0  | 2.24 | 3.19 | 0.0   | 0.0   | 0.0  |
| 17.54    | 11 | -     | -     | -     | 89.07 | 6.75  | 0.0   | 0.96  | 0.0  | 0.0  | 0.0  | 0.0  | 3.22 | 0.0   | 0.0   | 0.0  |
| 19.06    | 12 | -     | -     | -     | 88.67 | 4.53  | 0.0   | 2.59  | 0.32 | 0.97 | 0.0  | 0.97 | 2.91 | 0.0   | 0.0   | 0.0  |
| 20.59    | 13 | -     | -     | -     | 88.22 | 6.69  | 0.0   | 0.96  | 0.0  | 0.0  | 0.0  | 0.0  | 4.14 | 0.0   | 0.0   | 0.0  |
| 22.11    | 14 | -     | -     | -     | 91.69 | 3.38  | 0.0   | 1.54  | 0.0  | 0.0  | 0.0  | 0.0  | 3.38 | 0.0   | 0.0   | 0.0  |
| 23.64    | 15 | -     | -     | -     | 91.17 | 4.73  | 0.0   | 1.26  | 0.0  | 0.0  | 0.0  | 0.0  | 2.84 | 0.0   | 0.0   | 0.0  |
| 25.16    | 16 | -     | -     | -     | 88.92 | 4.11  | 0.63  | 3.48  | 0.0  | 0.0  | 0.0  | 0.0  | 2.85 | 0.0   | 0.0   | 0.0  |
| 26.69    | 17 | -     | -     | -     | 92.4  | 2.13  | 0.0   | 4.26  | 0.0  | 0.3  | 0.0  | 0.3  | 0.61 | 0.30  | 0.0   | 0.0  |
| 28.21    | 18 | -     | -     | -     | 96.04 | 3.63  | 0.0   | 0.33  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |
| 29.74    | 19 | -     | -     | -     | 96.84 | 1.27  | 0.0   | 0.95  | 0.0  | 0.0  | 0.0  | 0.0  | 0.95 | 0.0   | 0.0   | 0.0  |
| 31.26    | 20 | -     | -     | -     | 98.08 | 0.64  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 1.28 | 0.0   | 0.0   | 0.0  |
| 32.79    | 21 | -     | -     | -     | 94.12 | 1.96  | 0.0   | 0.65  | 0.33 | 0.0  | 0.0  | 0.0  | 2.94 | 0.0   | 0.0   | 0.0  |
| 34.31    | 22 | -     | -     | -     | 86.12 | 8.20  | 0.32  | 3.79  | 0.0  | 0.0  | 0.0  | 0.0  | 1.26 | 0.0   | 0.0   | 0.0  |
| 35.84    | 23 | -     | -     | -     | 92.35 | 2.75  | 0.0   | 3.67  | 0.0  | 0.0  | 0.0  | 0.0  | 1.22 | 0.0   | 0.0   | 0.0  |
| 37.36    | 24 | -     | -     | -     | 93.17 | 0.93  | 0.0   | 3.73  | 0.0  | 0.0  | 0.0  | 0.0  | 0.62 | 0.31  | 0.31  | 0.0  |
| 38.89    | 25 | -     | -     | -     | 96.69 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 3.31 | 0.0   | 0.0   | 0.0  |
| 40.41    | 26 | -     | -     | -     | 96.08 | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 3.92 | 0.0   | 0.0   | 0.0  |

## APPENDIX 2.—Continued.

## CORE S51

| DEPTH | NO | GSHW | GSHF | PSHF | SHLO | OSTR | SPNG | ECHN | CARBON-14     |
|-------|----|------|------|------|------|------|------|------|---------------|
| 0.38  | 27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 1.52  | 1  | 0.0  | 0.0  | 0.62 | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 2.75  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 4.27  | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 4.37  | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 5.60  | 29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3,800 +/- 60  |
| 6.1   | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  |               |
| 6.84  | 30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 7.63  | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.31 | 0.31 |               |
| 8.38  | 31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.27 | 0.64 | 5,930 +/- 130 |
| 9.15  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.48 | 0.24 |               |
| 10.68 | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.98 | 0.66 |               |
| 11.23 | 32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.58 | 0.32 |               |
| 12.3  | 33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 6,580 +/- 110 |
| 13.12 | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 14.03 | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 15.86 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 17.54 | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 19.06 | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 20.59 | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 22.11 | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 23.64 | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 25.16 | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 26.69 | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 28.21 | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 29.74 | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 31.26 | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 32.79 | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 34.31 | 22 | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 35.84 | 23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 37.36 | 24 | 0.31 | 0.31 | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  |               |
| 38.89 | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 40.41 | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |



## APPENDIX 2.—Continued.

| CORE S52 |       | DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU  | PYRT | EVAP | LITH  | PLTM  | FORB |
|----------|-------|-------|----|-------|-------|-------|-------|------|-------|-------|------|------|-------|-------|------|
|          | surf  |       | 1  | 1.59  | 24.24 | 74.18 | 72.40 | 0.97 | 0.65  | 12.99 | 0.0  | 0.97 | 0.65  | 4.22  | 2.92 |
|          | 0.3   |       | 2  | 2.65  | 27.09 | 70.27 | 67.78 | 4.07 | 3.33  | 4.44  | 0.0  | 0.0  | 6.67  | 4.44  | 2.96 |
|          | 1.68  |       | 29 | 14.10 | 25.89 | 60.01 | 26.54 | 0.65 | 1.94  | 1.29  | 0.65 | 0.0  | 62.78 | 1.29  | 1.62 |
|          | 2.29  |       | 30 | 53.20 | 6.08  | 40.71 | 5.30  | 0.0  | 0.0   | 0.66  | 0.0  | 0.0  | 0.0   | 90.72 | 0.0  |
|          | 3.2   |       | 3  | 81.39 | 10.77 | 7.84  | 75.16 | 3.27 | 1.96  | 18.30 | 0.0  | 0.65 | 0.65  | 0.0   | 0.0  |
|          | 4.73  |       | 4  | 70.82 | 16.65 | 12.53 | 80.43 | 3.42 | 0.62  | 12.42 | 0.0  | 2.17 | 0.0   | 0.0   | 0.0  |
|          | 6.25  |       | 5  | 1.09  | 61.71 | 37.20 | 23.58 | 0.0  | 46.86 | 6.60  | 3.14 | 0.31 | 1.26  | 11.63 | 0.62 |
|          | 7.09  |       | 31 | 4.84  | 54.01 | 41.16 | 42.48 | 1.31 | 9.15  | 1.96  | 1.31 | 0.0  | 18.95 | 16.99 | 0.0  |
|          | 7.78  |       | 6  | 94.06 | 2.84  | 3.10  | 19.29 | 0.64 | 2.57  | 2.25  | 0.0  | 0.0  | 0.0   | 73.95 | 0.0  |
|          | 8.03  |       | 32 | 40.12 | 18.57 | 41.30 | 31.41 | 0.0  | 0.64  | 0.64  | 0.0  | 0.0  | 0.0   | 66.03 | 0.0  |
|          | 9.3   |       | 7  | 39.97 | 31.03 | 28.99 | 80.19 | 1.28 | 2.56  | 12.46 | 0.0  | 2.56 | 0.32  | 0.64  | 0.0  |
|          | 10.00 |       | 33 | 54.04 | 23.05 | 22.91 | 76.19 | 6.98 | 5.40  | 9.84  | 0.32 | 0.95 | 0.0   | 0.32  | 0.0  |
|          | 10.83 |       | 8  | 6.20  | 38.15 | 55.65 | 51.18 | 0.89 | 1.18  | 6.8   | 1.48 | 0.59 | 0.0   | 37.87 | 0.0  |
|          | 11.97 |       | 34 | 11.37 | 10.07 | 78.56 | 63.21 | 3.77 | 1.26  | 0.94  | 5.35 | 0.0  | 2.52  | 22.96 | 0.0  |
|          | 12.35 |       | 9  | 73.00 | 14.49 | 12.51 | 97.06 | 2.61 | 0.0   | 0.33  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |
|          | 12.9  |       | 10 | -     | -     | -     | 89.34 | 5.02 | 0.31  | 4.08  | 0.63 | 0.63 | 0.0   | 0.0   | 0.0  |
|          | 14.5  |       | 11 | -     | -     | -     | 85.44 | 6.65 | 1.58  | 4.43  | 0.32 | 0.95 | 0.32  | 0.0   | 0.0  |
|          | 16    |       | 12 | -     | -     | -     | 83.71 | 5.43 | 0.64  | 9.58  | 0.0  | 0.64 | 0.0   | 0.0   | 0.0  |
|          | 17.54 |       | 13 | -     | -     | -     | 91.15 | 3.69 | 0.0   | 2.46  | 0.0  | 2.7  | 0.0   | 0.0   | 0.0  |
|          | 19.06 |       | 14 | -     | -     | -     | 89.31 | 4.46 | 0.32  | 2.55  | 0.0  | 2.87 | 0.0   | 0.0   | 0.0  |
|          | 20.6  |       | 15 | -     | -     | -     | 87.38 | 5.99 | 0.95  | 4.73  | 0.0  | 0.95 | 0.0   | 0.0   | 0.0  |
|          | 22.1  |       | 16 | -     | -     | -     | 89.27 | 5.36 | 0.0   | 4.1   | 0.0  | 1.26 | 0.0   | 0.0   | 0.0  |
|          | 23.64 |       | 17 | -     | -     | -     | 88.67 | 5.50 | 0.32  | 3.88  | 0.32 | 1.29 | 0.0   | 0.0   | 0.0  |
|          | 25.16 |       | 18 | -     | -     | -     | 86.89 | 5.25 | 0.0   | 3.93  | 0.0  | 3.93 | 0.0   | 0.0   | 0.0  |
|          | 26.7  |       | 19 | -     | -     | -     | 86.65 | 4.97 | 5.59  | 0.0   | 0.0  | 2.8  | 0.0   | 0.0   | 0.0  |
|          | 28.21 |       | 20 | -     | -     | -     | 87.01 | 8.12 | 0.32  | 2.92  | 0.0  | 0.97 | 0.65  | 0.0   | 0.0  |
|          | 29.74 |       | 21 | -     | -     | -     | 92.95 | 5.77 | 0.0   | 0.64  | 0.0  | 0.64 | 0.0   | 0.0   | 0.0  |
|          | 31.3  |       | 22 | -     | -     | -     | 87.5  | 9.69 | 0.0   | 0.63  | 0.0  | 2.19 | 0.0   | 0.0   | 0.0  |
|          | 32.8  |       | 23 | -     | -     | -     | 90.19 | 6.01 | 0.0   | 0.63  | 0.0  | 3.16 | 0.0   | 0.0   | 0.0  |
|          | 34.3  |       | 24 | -     | -     | -     | 88.78 | 6.09 | 0.32  | 3.21  | 0.0  | 1.6  | 0.0   | 0.0   | 0.0  |
|          | 35.8  |       | 25 | -     | -     | -     | 90.00 | 5.59 | 0.0   | 3.24  | 0.0  | 1.18 | 0.0   | 0.0   | 0.0  |
|          | 37.4  |       | 26 | -     | -     | -     | 89.00 | 7.77 | 0.0   | 2.59  | 0.0  | 0.65 | 0.0   | 0.0   | 0.0  |
|          | 38.9  |       | 27 | -     | -     | -     | 87.62 | 6.67 | 0.63  | 2.86  | 0.0  | 2.22 | 0.0   | 0.0   | 0.0  |
|          | 40.4  |       | 28 | -     | -     | -     | 87.54 | 7.79 | 0.0   | 2.8   | 0.0  | 1.25 | 0.0   | 0.0   | 0.0  |

## APPENDIX 2.—Continued.

## CORE S52

| DEPTH | NO | GSHW | PSHF | SHLO | OSTR | SPNG | ECHN | DIAT | OTH  | CARBON-14      |
|-------|----|------|------|------|------|------|------|------|------|----------------|
| surf  | 1  | 0.0  | 0.0  | 0.32 | 2.6  | 0.0  | 0.0  | 0.0  | 1.30 |                |
| 0.3   | 2  | 0.0  | 0.0  | 1.11 | 1.48 | 0.0  | 0.0  | 0.0  | 3.70 |                |
| 1.68  | 29 | 0.0  | 0.0  | 0.65 | 1.29 | 0.32 | 0.0  | 0.0  | 0.97 |                |
| 2.29  | 30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.31 | 1,670 +/- 60   |
| 3.2   | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 4.73  | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.31 |                |
| 6.25  | 5  | 0.0  | 1.26 | 0.0  | 1.89 | 1.89 | 0.31 | 0.63 | 0.0  | 3,250 +/- 100  |
| 7.09  | 31 | 0.0  | 0.0  | 0.0  | 0.33 | 6.54 | 0.0  | 0.0  | 0.98 |                |
| 7.78  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.29 | 0.0  | 4,790 +/- 70   |
| 8.03  | 32 | 0.0  | 0.0  | 0.0  | 0.0  | 1.28 | 0.0  | 0.0  | 0.0  |                |
| 9.3   | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 10.00 | 33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 10.83 | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 11.97 | 34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 12.35 | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 12.9  | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 14.5  | 11 | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6,550 +/- 80   |
| 16    | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10,510 +/- 130 |
| 17.54 | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 19.06 | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 20.6  | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 22.1  | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 23.64 | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 25.16 | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 26.7  | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 28.21 | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 29.74 | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 31.3  | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 32.8  | 23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 34.3  | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 35.8  | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 37.4  | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 38.9  | 27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |
| 40.4  | 28 | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |                |

## APPENDIX 2.—Continued.

| CORE S53 |       | DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MCA   | GLAU  | PYRT  | EVAP | LITH | AGG   | PLTM  | FORB |
|----------|-------|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
|          | surf  |       | 1  | 1.62  | 45.02 | 53.36 | 14.02 | 3.12  | 8.41  | 1.87  | 0.0   | 0.0  | 0.0  | 47.98 | 15.27 | 3.43 |
|          | 1.52  |       | 2  | 2.18  | 48.96 | 48.86 | 13.96 | 1.62  | 6.17  | 1.62  | 0.0   | 0.0  | 0.0  | 53.57 | 11.69 | 3.57 |
|          | 2.29  |       | 19 | 5.02  | 25.12 | 69.85 | 66.47 | 4.49  | 2.56  | 1.28  | 2.56  | 0.96 | 0.0  | 0.64  | 20.51 | 0.0  |
|          | 3.00  |       | 3  | 0.31  | 10.20 | 89.49 | 28.80 | 0.0   | 1.62  | 0.0   | 22.33 | 0.0  | 0.0  | 3.88  | 40.13 | 0.32 |
|          | 3.15  |       | 20 | 14.36 | 54.72 | 30.93 | 6.31  | 0.66  | 1.33  | 0.66  | 1.33  | 0.0  | 0.0  | 0.0   | 50.16 | 1.00 |
|          | 4.60  |       | 4  | 12.01 | 35.91 | 52.08 | 17.61 | 0.0   | 3.28  | 0.60  | 11.64 | 0.0  | 0.0  | 0.0   | 60.19 | 0.0  |
|          | 5.19  |       | 21 | 9.24  | 57.74 | 33.01 | 66.35 | 2.20  | 5.66  | 18.24 | 6.29  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |
|          | 6.71  |       | 22 | 1.25  | 19.00 | 79.75 | 9.09  | 0.0   | 0.0   | 0.32  | 48.70 | 0.0  | 0.0  | 0.0   | 38.97 | 0.0  |
|          | 7.62  |       | 5  | 1.94  | 38.55 | 59.52 | 12.10 | 0.32  | 4.14  | 2.55  | 26.43 | 0.0  | 0.0  | 0.64  | 53.19 | 0.0  |
|          | 8.24  |       | 23 | 3.67  | 26.93 | 69.40 | 5.98  | 0.0   | 1.00  | 0.0   | 9.30  | 0.0  | 0.0  | 0.0   | 77.07 | 0.0  |
|          | 9.15  |       | 6  | 56.59 | 14.00 | 29.41 | 6.62  | 0.0   | 0.0   | 0.0   | 1.58  | 0.0  | 0.0  | 1.89  | 89.90 | 0.0  |
|          | 10.70 |       | 7  | 68.81 | 0.00  | 31.19 | 11.04 | 0.0   | 1.3   | 0.0   | 0.0   | 0.0  | 0.0  | 0.65  | 83.76 | 0.0  |
|          | 10.98 |       | 24 | 28.56 | 35.81 | 35.63 | 91.96 | 0.96  | 0.96  | 1.61  | 4.18  | 0.0  | 0.32 | 0.0   | 0.0   | 0.0  |
|          | 11.90 |       | 8  | 21.90 | 29.24 | 48.85 | 85.58 | 1.25  | 4.39  | 1.25  | 6.27  | 0.0  | 0.0  | 0.0   | 1.25  | 0.0  |
|          | 12.66 |       | 25 | 0.43  | 46.87 | 52.69 | 91.80 | 1.97  | 0.0   | 0.66  | 0.0   | 0.0  | 0.66 | 0.0   | 1.64  | 0.0  |
|          | 14.03 |       | 9  | 13.34 | 38.29 | 48.37 | 75.96 | 2.56  | 5.77  | 1.60  | 0.32  | 3.21 | 0.0  | 0.64  | 0.0   | 0.0  |
|          | 14.79 |       | 26 | 1.47  | 4.86  | 93.67 | 65.27 | 3.54  | 13.50 | 15.76 | 0.32  | 0.0  | 1.61 | 0.0   | 0.0   | 0.0  |
|          | 15.60 |       | 10 | 77.71 | 12.87 | 9.42  | 88.22 | 7.96  | 1.27  | 1.91  | 0.0   | 0.0  | 0.64 | 0.0   | 0.0   | 0.0  |
|          | 16.16 |       | 11 | -     | -     | -     | 82.75 | 15.02 | 0.32  | 0.32  | 0.0   | 0.0  | 1.6  | 0.0   | 0.0   | 0.0  |
|          | 17.52 |       | 12 | -     | -     | -     | 90.91 | 2.92  | 1.3   | 2.6   | 0.0   | 0.0  | 2.27 | 0.0   | 0.0   | 0.0  |
|          | 19.06 |       | 13 | -     | -     | -     | 88.06 | 8.06  | 0.32  | 2.90  | 0.0   | 0.0  | 0.65 | 0.0   | 0.0   | 0.0  |
|          | 20.59 |       | 14 | -     | -     | -     | 87.42 | 8.39  | 0.0   | 2.26  | 0.0   | 0.0  | 1.94 | 0.0   | 0.0   | 0.0  |
|          | 22.11 |       | 15 | -     | -     | -     | 89.00 | 7.12  | 0.32  | 1.62  | 0.0   | 0.0  | 0.0  | 0.65  | 0.0   | 0.0  |
|          | 23.64 |       | 16 | -     | -     | -     | 90.48 | 8.25  | 0.0   | 0.63  | 0.0   | 0.0  | 0.63 | 0.0   | 0.0   | 0.0  |
|          | 25.16 |       | 17 | -     | -     | -     | 88.67 | 8.41  | 0.0   | 0.65  | 0.0   | 0.0  | 0.65 | 0.97  | 0.0   | 0.0  |
|          | 26.68 |       | 18 | -     | -     | -     | 93.29 | 4.15  | 0.0   | 1.60  | 0.0   | 0.0  | 0.96 | 0.0   | 0.0   | 0.0  |

## APPENDIX 2.—Continued.

## CORE S53

| DEPTH | NO | SHLO | OSTR | SPNG | ECHN | DIAT  | OTH  | CARBON-14      |
|-------|----|------|------|------|------|-------|------|----------------|
| surf  | 1  | 0.93 | 4.98 | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 1.52  | 2  | 2.92 | 4.87 | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 2.29  | 19 | 0.0  | 0.0  | 0.32 | 0.0  | 0.0   | 0.0  |                |
| 3.00  | 3  | 0.32 | 0.0  | 2.27 | 0.0  | 0.32  | 0.0  |                |
| 3.15  | 20 | 1.33 | 2.33 | 3.32 | 0.0  | 31.56 | 0.0  | 2,470 +/- 60   |
| 4.60  | 4  | 0.6  | 0.0  | 3.58 | 0.90 | 0.60  | 0.0  |                |
| 5.19  | 21 | 0.31 | 0.0  | 0.63 | 0.0  | 0.31  | 0.0  |                |
| 6.71  | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 2.92 |                |
| 7.62  | 5  | 0.0  | 0.0  | 0.64 | 0.0  | 0.0   | 0.0  |                |
| 8.24  | 23 | 0.0  | 0.0  | 0.66 | 0.0  | 0.0   | 5.98 |                |
| 9.15  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 10.70 | 7  | 0.0  | 0.0  | 2.6  | 0.0  | 0.65  | 0.0  | 5,820 +/- 100  |
| 10.98 | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 11,930 +/- 170 |
| 11.90 | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 12.66 | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.28 |                |
| 14.03 | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 9.94 |                |
| 14.79 | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 15.60 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 16.16 | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 17.52 | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 19.06 | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 20.59 | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 22.11 | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 1.29 |                |
| 23.64 | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |
| 25.16 | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.65 |                |
| 26.68 | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |                |



## APPENDIX 2.—Continued.

## CORE S54

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU  | PYRT | EVAP | LITH | AGG   | PLTM  |
|-------|----|-------|-------|-------|-------|------|-------|-------|------|------|------|-------|-------|
| surf  | 1  | 6.03  | 51.20 | 42.77 | 51.53 | 3.07 | 14.42 | 12.88 | 0.0  | 0.0  | 0.0  | 5.52  | 3.07  |
| 1.53  | 14 | 11.97 | 35.83 | 52.20 | 72.40 | 1.30 | 3.57  | 15.91 | 0.0  | 0.0  | 0.32 | 2.27  | 0.0   |
| 3.05  | 2  | 4.93  | 46.98 | 48.08 | 69.06 | 1.25 | 10.31 | 17.50 | 0.0  | 0.0  | 0.31 | 0.0   | 1.56  |
| 3.64  | 15 | 4.99  | 23.75 | 71.26 | 28.20 | 1.31 | 7.21  | 2.95  | 0.0  | 4.26 | 0.0  | 8.20  | 0.98  |
| 4.6   | 3  | 0.36  | 28.22 | 71.43 | 62.88 | 0.61 | 8.28  | 4.91  | 0.0  | 2.76 | 0.0  | 0.92  | 4.6   |
| 6.1   | 4  | 0.44  | 23.96 | 75.60 | 11.3  | 0.0  | 0.66  | 1.66  | 0.0  | 0.0  | 0.0  | 5.65  | 35.21 |
| 7.01  | 16 | 1.41  | 34.03 | 64.56 | 25.94 | 0.63 | 7.81  | 2.19  | 0.94 | 0.0  | 0.0  | 0.0   | 56.25 |
| 7.6   | 5  | 69.05 | 3.72  | 27.23 | 1.62  | 0.0  | 0.32  | 0.0   | 0.0  | 5.19 | 0.0  | 0.0   | 87.99 |
| 8.24  | 17 | 74.60 | 2.31  | 23.09 | 0.95  | 0.0  | 0.63  | 0.0   | 0.0  | 5.05 | 0.0  | 0.0   | 92.75 |
| 9.15  | 6  | 75.79 | 2.74  | 21.47 | 0.64  | 0.0  | 0.32  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 88.43 |
| 10.06 | 18 | 75.73 | 9.01  | 15.26 | 64.00 | 0.62 | 0.92  | 0.31  | 0.0  | 0.0  | 0.0  | 10.46 | 14.77 |
| 10.14 | 19 | 33.38 | 32.03 | 34.59 | 92.43 | 2.96 | 1.32  | 0.66  | 0.66 | 0.0  | 0.66 | 0.0   | 0.0   |
| 10.67 | 7  | 13.12 | 51.38 | 35.50 | 80.37 | 1.25 | 6.23  | 6.85  | 0.62 | 2.80 | 0.93 | 0.0   | 0.0   |
| 11.3  | 8  | 80.59 | 12.67 | 6.74  | 91.82 | 6.36 | 0.0   | 0.0   | 0.0  | 0.0  | 0.61 | 1.21  | 0.0   |
| 12.66 | 11 | -     | -     | -     | 88.24 | 7.19 | 1.96  | 0.33  | 0.0  | 0.0  | 2.29 | 0.0   | 0.0   |
| 14.03 | 20 | 20.84 | 44.37 | 34.79 | 78.02 | 4.02 | 4.33  | 5.26  | 0.0  | 0.0  | 2.79 | 0.0   | 0.0   |
| 15.25 | 9  | 2.61  | 10.77 | 86.62 | 2.93  | 0.0  | 1.3   | 0.0   | 0.0  | 5.86 | 0.0  | 79.15 | 1.30  |
| 15.86 | 21 | 0.11  | 6.12  | 93.77 | 67.90 | 8.02 | 0.0   | 0.0   | 0.62 | 0.0  | 0.62 | 15.43 | 0.0   |
| 16.47 | 10 | 72.91 | 3.39  | 23.70 | 94.44 | 3.27 | 0.0   | 0.0   | 0.0  | 0.0  | 0.65 | 0.0   | 0.0   |
| 17.23 | 12 | -     | -     | -     | 84.97 | 5.88 | 1.31  | 4.25  | 0.0  | 0.0  | 3.59 | 0.0   | 0.0   |
| 18.75 | 13 | -     | -     | -     | 90.55 | 3.58 | 0.65  | 1.30  | 0.0  | 0.65 | 0.98 | 2.28  | 0.0   |

## APPENDIX 2.—Continued.

## CORE S54

| DEPTH | NO | SHLO | OSTR | SPNG  | GSHW | DIAT | OTH   | CARBON-14      |
|-------|----|------|------|-------|------|------|-------|----------------|
| surf  | 1  | 0.31 | 0.0  | 0.31  | 0.0  | 0.92 | 7.98  |                |
| 1.53  | 14 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 4.22  |                |
| 3.05  | 2  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   |                |
| 3.64  | 15 | 0.0  | 0.0  | 0.98  | 0.0  | 0.0  | 45.90 |                |
| 4.6   | 3  | 0.0  | 0.0  | 1.84  | 0.0  | 0.0  | 13.19 | 3,080 +/- 70   |
| 6.1   | 4  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 45.51 |                |
| 7.01  | 16 | 0.0  | 0.0  | 5.31  | 0.0  | 0.94 | 0.0   |                |
| 7.6   | 5  | 0.0  | 0.0  | 0.97  | 0.0  | 0.0  | 3.9   |                |
| 8.24  | 17 | 0.0  | 0.0  | 0.63  | 0.0  | 0.0  | 0.0   |                |
| 9.15  | 6  | 0.32 | 0.0  | 10.29 | 0.0  | 0.0  | 0.0   | 5,990 +/- 100  |
| 10.06 | 18 | 0.31 | 1.54 | 5.23  | 1.85 | 0.0  | 0.0   |                |
| 10.14 | 19 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.32  | 12,310 +/- 120 |
| 10.67 | 7  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.93  |                |
| 11.3  | 8  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   |                |
| 12.66 | 11 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   |                |
| 14.03 | 20 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 5.57  | 22,820 +/- 770 |
| 15.25 | 9  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 9.44  |                |
| 15.86 | 21 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 7.41  |                |
| 16.47 | 10 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.63  |                |
| 17.23 | 12 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   |                |
| 18.75 | 13 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   |                |

## APPENDIX 2.—Continued.

| CORE S55 |       | DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU  | PYRT  | EVAP | LITH | AGG  | PLTM  |
|----------|-------|-------|----|-------|-------|-------|-------|------|-------|-------|-------|------|------|------|-------|
|          | surf  |       | 1  | 10.30 | 58.21 | 31.50 | 69.58 | 2.91 | 0.0   | 10.36 | 0.0   | 7.77 | 0.32 | 4.85 | 3.89  |
|          | 0.91  |       | 2  | 3.47  | 44.15 | 52.38 | 66.67 | 1.25 | 5.61  | 16.82 | 0.0   | 0.0  | 0.0  | 2.80 | 0.62  |
|          | 1.83  |       | 3  | 2.84  | 49.30 | 47.86 | 62.15 | 3.15 | 15.77 | 16.72 | 0.63  | 0.0  | 0.0  | 0.63 | 0.0   |
|          | 2.59  |       | 9  | -     | -     | -     | 93.87 | 2.9  | 0.0   | 1.61  | 0.0   | 0.97 | 0.65 | 0.0  | 0.0   |
|          | 3.36  |       | 16 | 8.66  | 9.85  | 81.49 | 61.35 | 1.53 | 0.61  | 2.15  | 0.0   | 0.0  | 2.15 | 0.0  | 10.73 |
|          | 4.88  |       | 4  | 6.59  | 56.90 | 36.52 | 58.17 | 1.15 | 3.44  | 36.10 | 0.29  | 0.0  | 0.0  | 0.0  | 0.86  |
|          | 5.57  |       | 17 | 1.90  | 14.37 | 83.74 | 41.28 | 0.0  | 7.65  | 5.5   | 5.2   | 0.0  | 0.0  | 0.0  | 40.37 |
|          | 6.4   |       | 5  | 1.11  | 65.56 | 33.34 | 8.74  | 0.97 | 24.92 | 0.65  | 25.57 | 0.0  | 2.59 | 0.0  | 30.42 |
|          | 7.02  |       | 18 | 1.00  | 40.79 | 58.21 | 25.00 | 0.32 | 2.88  | 1.92  | 43.59 | 0.0  | 0.0  | 0.0  | 24.68 |
|          | 8.08  |       | 6  | 74.54 | 3.12  | 22.34 | 1.94  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 98.06 |
|          | 8.77  |       | 19 | 30.87 | 37.22 | 31.91 | 80.65 | 2.93 | 4.11  | 0.29  | 2.35  | 0.0  | 0.59 | 0.0  | 0.29  |
|          | 9.45  |       | 7  | 11.86 | 33.59 | 54.55 | 90.31 | 1.56 | 0.63  | 5.63  | 0.0   | 0.0  | 0.63 | 0.0  | 0.0   |
|          | 9.74  |       | 20 | 34.76 | 31.02 | 34.22 | 87.62 | 0.95 | 2.54  | 0.32  | 2.54  | 1.27 | 0.0  | 0.0  | 1.59  |
|          | 10.37 |       | 8  | 66.01 | 20.78 | 13.21 | 92.56 | 4.21 | 0.97  | 1.94  | 0.0   | 0.0  | 0.32 | 0.0  | 0.0   |
|          | 11.28 |       | 10 | -     | -     | -     | 87.70 | 3.15 | 0.0   | 6.94  | 0.0   | 0.0  | 2.21 | 0.0  | 0.0   |
|          | 12.96 |       | 11 | -     | -     | -     | 90.51 | 3.8  | 0.32  | 3.16  | 0.63  | 0.0  | 0.95 | 0.63 | 0.0   |
|          | 14.5  |       | 12 | -     | -     | -     | 96.21 | 2.21 | 0.0   | 0.95  | 0.0   | 0.0  | 0.63 | 0.0  | 0.0   |
|          | 16.01 |       | 13 | -     | -     | -     | 92.51 | 5.31 | 0.0   | 1.21  | 0.48  | 0.0  | 0.48 | 0.0  | 0.0   |
|          | 17.54 |       | 14 | -     | -     | -     | 91.61 | 6.45 | 0.0   | 0.0   | 0.65  | 0.0  | 1.29 | 0.0  | 0.0   |
|          | 19.06 |       | 15 | -     | -     | -     | 95.02 | 1.99 | 0.0   | 1.33  | 0.0   | 0.0  | 1.66 | 0.0  | 0.0   |

## APPENDIX 2.—Continued.

## CORE S55

| DEPTH | NO | PSHF | SHLO | OSTR | SPNG | ECHN | OTH   | CARBON-14      |
|-------|----|------|------|------|------|------|-------|----------------|
| surf  | 1  | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 0.91  | 2  | 0.0  | 1.25 | 4.98 | 0.0  | 0.0  | 0.0   |                |
| 1.83  | 3  | 0.63 | 0.0  | 0.32 | 0.0  | 0.0  | 0.0   |                |
| 2.59  | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 3.36  | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 21.47 | 2,420 +/- 110  |
| 4.88  | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 5.57  | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3,400 +/- 100  |
| 6.4   | 5  | 0.0  | 0.0  | 0.65 | 3.56 | 1.94 | 0.0   |                |
| 7.02  | 18 | 0.0  | 0.32 | 0.0  | 0.32 | 0.96 | 0.0   | 4,170 +/- 90   |
| 8.08  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 8.77  | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.80  |                |
| 9.45  | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.25  | 14,120 +/- 160 |
| 9.74  | 20 | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 2.86  |                |
| 10.37 | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 11.28 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 12.96 | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 14.5  | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 16.01 | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 17.54 | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 19.06 | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |



## APPENDIX 2.—Continued.

## CORE S56

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT | LITH | AGG   | PLTM  |
|-------|----|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|
| surf  | 1  | 31.80 | 39.62 | 28.59 | 58.97 | 10.68 | 5.98  | 4.27  | 1.28 | 0.0  | 9.83  | 0.0   |
| 0.92  | 2  | 0.75  | 51.09 | 48.16 | 44.33 | 3.00  | 13.33 | 3.00  | 1.33 | 0.0  | 28.67 | 3.00  |
| 1.49  | 16 | 1.09  | 92.50 | 6.41  | 4.43  | 0.32  | 1.58  | 0.95  | 0.0  | 0.0  | 88.92 | 0.0   |
| 2.44  | 3  | 72.97 | 21.55 | 5.47  | 63.47 | 7.78  | 10.78 | 13.47 | 0.6  | 0.0  | 0.0   | 0.0   |
| 3.36  | 4  | —     | —     | —     | 58.23 | 8.23  | 18.67 | 13.61 | 0.63 | 0.0  | 0.32  | 0.32  |
| 5.03  | 17 | 65.87 | 27.05 | 7.08  | 68.73 | 10.42 | 3.26  | 13.68 | 0.0  | 0.0  | 0.0   | 0.0   |
| 5.49  | 5  | 59.80 | 26.96 | 13.24 | 74.09 | 5.18  | 15.03 | 4.66  | 0.52 | 0.0  | 0.0   | 0.0   |
| 6.25  | 6  | —     | —     | —     | 66.57 | 5.76  | 12.39 | 12.39 | 2.88 | 0.0  | 0.0   | 0.0   |
| 7.32  | 7  | —     | —     | —     | 54.73 | 10.03 | 17.48 | 15.47 | 1.15 | 0.0  | 0.0   | 0.86  |
| 7.72  | 18 | .75   | 88.91 | 10.35 | 28.25 | 10.16 | 31.75 | 6.03  | 0.0  | 0.0  | 10.48 | 11.11 |
| 8.58  | 19 | 28.93 | 58.11 | 12.96 | 35.00 | 12.06 | 17.06 | 25.00 | 0.29 | 0.0  | 0.0   | 7.06  |
| 9.15  | 8  | 73.82 | 18.96 | 7.22  | 80.78 | 6.91  | 5.11  | 4.2   | 2.1  | 0.0  | 0.9   | 0.0   |
| 9.91  | 9  | —     | —     | —     | 68.86 | 8.08  | 11.98 | 7.78  | 0.0  | 2.1  | 0.0   | 1.2   |
| 11.44 | 10 | —     | —     | —     | 60.50 | 12.71 | 12.71 | 11.88 | 0.83 | 0.0  | 1.38  | 0.0   |
| 12.96 | 11 | —     | —     | —     | 60.59 | 14.41 | 11.76 | 10.59 | 1.47 | 0.29 | 0.59  | 0.0   |
| 14.49 | 12 | —     | —     | —     | 60.31 | 15.08 | 10.15 | 10.77 | 1.54 | 0.0  | 0.31  | 0.62  |
| 16.01 | 13 | —     | —     | —     | 62.87 | 8.97  | 13.17 | 11.98 | 1.2  | 0.0  | 0.6   | 0.6   |
| 17.54 | 14 | —     | —     | —     | 62.45 | 5.73  | 12.89 | 14.04 | 0.57 | 0.0  | 1.15  | 2.59  |
| 19.06 | 15 | —     | —     | —     | 64.65 | 13.6  | 9.4   | 9.4   | 1.8  | 0.6  | 0.0   | 0.6   |

## APPENDIX 2.—Continued.

## CORE S56

| DEPTH | NO | GSHW | PSHW | PSHF | SPNG | ECHN | OTH  | CARBON-14    |
|-------|----|------|------|------|------|------|------|--------------|
| surf  | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.97 |              |
| 0.92  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.33 |              |
| 1.49  | 16 | 0.0  | 0.0  | 0.0  | 0.63 | 0.0  | 3.16 |              |
| 2.44  | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.89 |              |
| 3.36  | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |              |
| 5.03  | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.91 |              |
| 5.49  | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.52 |              |
| 6.25  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |              |
| 7.32  | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 |              |
| 7.72  | 18 | 0.0  | 0.0  | 0.32 | 0.0  | 0.32 | 1.59 |              |
| 8.58  | 19 | 0.0  | 0.0  | 0.88 | 0.0  | 0.0  | 2.65 | 1,490 +/- 80 |
| 9.15  | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |              |
| 9.91  | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |              |
| 11.44 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |              |
| 12.96 | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 |              |
| 14.49 | 12 | 0.0  | 0.0  | 0.62 | 0.0  | 0.0  | 0.62 |              |
| 16.01 | 13 | 0.3  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  |              |
| 17.54 | 14 | 0.0  | 0.29 | 0.29 | 0.0  | 0.0  | 0.0  |              |
| 19.06 | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |              |

## APPENDIX 2.—Continued.

## CORE S57

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA | GLAU  | PYRT  | EVAP  | LITH | AGG  | PLTM  | FORB  |
|-------|----|-------|-------|-------|-------|------|------|-------|-------|-------|------|------|-------|-------|
| surf  | 1  | 2.86  | 28.28 | 68.86 | 9.8   | 0.65 | 1.31 | 1.63  | 0.0   | 23.20 | 0.0  | 9.80 | 48.04 | 0.0   |
| 0.56  | 15 | 2.87  | 27.26 | 69.87 | 37.41 | 2.10 | 3.15 | 4.55  | 8.39  | 23.20 | 0.0  | 3.50 | 9.44  | 2.80  |
| 1.52  | 2  | 15.08 | 34.36 | 50.57 | 69.87 | 3.81 | 0.32 | 3.85  | 2.88  | 0.0   | 0.32 | 0.0  | 1.92  | 11.86 |
| 2.44  | 16 | 4.52  | 26.36 | 69.13 | 44.34 | 2.27 | 4.53 | 5.83  | 6.47  | 0.0   | 0.65 | 0.0  | 18.45 | 6.48  |
| 3.35  | 3  | 3.30  | 21.66 | 75.05 | 64.29 | 0.62 | 0.93 | 1.55  | 16.46 | 1.86  | 0.0  | 0.0  | 6.52  | 3.73  |
| 3.97  | 17 | 2.28  | 28.61 | 69.12 | 70.92 | 3.27 | 8.17 | 4.25  | 6.21  | 0.0   | 0.65 | 0.0  | 5.23  | 0.33  |
| 4.88  | 4  | 15.02 | 44.58 | 40.40 | 71.09 | 2.06 | 4.72 | 17.70 | 2.95  | 0.0   | 0.0  | 0.59 | 0.88  | 0.0   |
| 5.40  | 18 | 0.92  | 23.23 | 75.84 | 38.69 | 0.0  | 6.23 | 1.97  | 19.67 | 0.0   | 0.0  | 0.0  | 31.47 | 0.0   |
| 6.40  | 5  | 7.48  | 38.44 | 54.09 | 76.47 | 1.31 | 2.29 | 8.17  | 6.86  | 0.0   | 0.0  | 0.98 | 1.96  | 0.65  |
| 6.86  | 19 | 2.64  | 13.46 | 83.89 | 0.66  | 0.0  | 0.0  | 0.0   | 28.20 | 0.0   | 0.0  | 0.0  | 69.84 | 0.0   |
| 7.63  | 20 | 1.81  | 28.71 | 69.48 | 10.78 | 0.0  | 0.0  | 7.52  | 32.03 | 0.0   | 0.0  | 0.0  | 48.7  | 0.33  |
| 8.84  | 6  | 8.26  | 6.22  | 85.52 | 3.00  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 97.00 | 0.0   |
| 10.37 | 7  | 21.97 | 16.63 | 61.40 | 2.57  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 97.43 | 0.0   |
| 11.49 | 21 | 8.26  | 34.11 | 57.63 | 2.25  | 0.0  | 1.29 | 0.0   | 0.32  | 0.0   | 0.0  | 0.0  | 94.53 | 0.0   |
| 12.2  | 8  | 98.61 | 0.40  | 0.99  | 0.99  | 0.0  | 0.0  | 0.0   | 0.0   | 3.64  | 0.0  | 0.0  | 94.7  | 0.0   |
| 12.97 | 22 | 41.45 | 33.67 | 24.88 | 42.50 | 3.13 | 0.63 | 0.31  | 1.56  | 0.0   | 0.0  | 0.0  | 0.63  | 0.0   |
| 13.73 | 9  | 20.97 | 30.74 | 48.29 | 81.88 | 2.50 | 0.31 | 0.94  | 0.31  | 0.0   | 0.0  | 0.0  | 0.63  | 0.0   |
| 14.64 | 10 | 60.00 | 20.86 | 19.14 | 94.25 | 2.88 | 0.64 | 2.24  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 15.7  | 11 | -     | -     | -     | 90.55 | 1.52 | 0.0  | 4.27  | 0.91  | 0.0   | 0.91 | 0.0  | 0.0   | 0.0   |
| 18.3  | 12 | -     | -     | -     | 88.33 | 6.31 | 0.0  | 2.52  | 0.63  | 0.0   | 0.63 | 0.0  | 0.0   | 0.0   |
| 19.83 | 13 | -     | -     | -     | 86.17 | 5.79 | 0.0  | 1.61  | 0.64  | 0.0   | 1.93 | 0.0  | 0.0   | 0.32  |

## APPENDIX 2.—Continued.

## CORE S57

| DEPTH | NO | GSHW | GSHF | PSHW | SHLO | OSTR | SPNG | ECHN | OTH   | CARBON-14      |
|-------|----|------|------|------|------|------|------|------|-------|----------------|
| surf  | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.56  |                |
| 0.56  | 15 | 0.0  | 0.0  | 0.0  | 4.20 | 1.40 | 0.0  | 0.0  | 0.0   |                |
| 1.52  | 2  | 0.96 | 0.0  | 0.32 | 0.96 | 3.53 | 0.0  | 0.0  | 0.0   |                |
| 2.44  | 16 | 0.0  | 0.32 | 0.0  | 6.15 | 4.53 | 0.0  | 0.0  | 0.0   |                |
| 3.35  | 3  | 0.0  | 0.0  | 0.0  | 2.80 | 1.24 | 0.0  | 0.0  | 0.0   |                |
| 3.97  | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.65 | 0.33 | 0.0  | 0.0   |                |
| 4.88  | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 5.40  | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 1.64  | 3,630 +/- 70   |
| 6.40  | 5  | 0.0  | 0.0  | 0.0  | 0.65 | 0.65 | 0.0  | 0.0  | 0.0   |                |
| 6.86  | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.98 | 0.0   |                |
| 7.63  | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  | 0.0   |                |
| 8.84  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 10.37 | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 11.49 | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.29 | 0.32 | 0.0   |                |
| 12.2  | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.66  | 6,310 +/- 90   |
| 12.97 | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 47.19 |                |
| 13.73 | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.44 | 13,630 +/- 100 |
| 14.64 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 15.7  | 11 | 0.61 | 0.0  | 0.61 | 0.61 | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 18.3  | 12 | 0.0  | 0.32 | 0.63 | 0.63 | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 19.83 | 13 | 0.96 | 0.0  | 0.96 | 0.64 | 0.64 | 0.0  | 0.0  | 0.32  |                |



## APPENDIX 2.—Continued.

## CORE S58

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT  | EVAP | LITH | AGG   | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|------|
| surf  | 1  | 54.63 | 33.86 | 11.51 | 40.23 | 6.32  | 7.76  | 10.63 | 3.45  | 0.57 | 0.0  | 0.0   | 27.59 | 0.29 |
| 1.52  | 2  | 6.04  | 38.24 | 55.73 | 62.15 | 10.17 | 11.02 | 8.76  | 2.54  | 0.0  | 0.0  | 0.0   | 1.98  | 0.0  |
| 1.83  | 3  | 84.02 | 6.58  | 9.40  | 76.50 | 3.15  | 10.03 | 6.3   | 0.57  | 0.86 | 0.0  | 0.0   | 0.29  | 0.57 |
| 2.29  | 4  | —     | —     | —     | 70.44 | 2.83  | 13.52 | 10.69 | 0.0   | 0.0  | 0.0  | 0.94  | 0.0   | 0.0  |
| 2.75  | 18 | 70.49 | 22.64 | 6.87  | 67.46 | 16.27 | 3.85  | 9.47  | 0.0   | 0.0  | 0.30 | 1.48  | 1.18  | 0.0  |
| 3.97  | 5  | 6.42  | 62.46 | 31.12 | 24.38 | 1.85  | 15.74 | 18.83 | 32.41 | 2.78 | 0.0  | 0.62  | 1.86  | 0.0  |
| 4.86  | 19 | 1.03  | 62.94 | 36.03 | 30.63 | 0.0   | 15.92 | 1.50  | 0.60  | 0.0  | 0.0  | 0.0   | 41.44 | 0.3  |
| 6.1   | 6  | 7.22  | 49.88 | 42.90 | 17.24 | 1.25  | 5.64  | 2.19  | 4.08  | 0.0  | 0.0  | 0.0   | 67.4  | 0.0  |
| 7.49  | 20 | 4.92  | 59.14 | 35.94 | 37.10 | 3.19  | 16.52 | 7.82  | 0.0   | 0.0  | 0.58 | 4.64  | 27.83 | 0.0  |
| 8.23  | 7  | 1.87  | 68.25 | 29.88 | 36.34 | 2.03  | 20.93 | 11.05 | 1.45  | 0.87 | 0.0  | 0.0   | 20.35 | 1.16 |
| 9.15  | 8  | 2.97  | 59.08 | 37.95 | 51.12 | 5.34  | 20.27 | 15.73 | 0.84  | 1.97 | 0.0  | 0.0   | 3.09  | 0.0  |
| 9.28  | 21 | 3.97  | 52.87 | 43.16 | 35.80 | 3.40  | 20.06 | 7.72  | 0.31  | 0.0  | 0.0  | 0.31  | 25.0  | 0.62 |
| 9.62  | 22 | 0.50  | 56.06 | 43.44 | 19.30 | 0.95  | 5.70  | 0.95  | 0.32  | 0.0  | 0.0  | 0.0   | 63.29 | 0.0  |
| 9.84  | 23 | 2.99  | 40.12 | 56.89 | 5.88  | 0.0   | 0.62  | 0.31  | 3.10  | 0.62 | 0.0  | 0.0   | 87.0  | 0.0  |
| 10.67 | 9  | 87.32 | 1.44  | 11.23 | 5.32  | 0.28  | 1.12  | 0.28  | 0.0   | 0.56 | 0.0  | 0.0   | 92.15 | 0.0  |
| 11.31 | 24 | 1.85  | 46.68 | 51.47 | 2.39  | 0.0   | 0.0   | 0.24  | 0.0   | 0.0  | 0.0  | 0.0   | 83.25 | 0.0  |
| 12.20 | 10 | 62.67 | 16.38 | 20.95 | 9.46  | 0.0   | 0.57  | 0.86  | 0.0   | 0.0  | 0.0  | 0.0   | 88.25 | 0.0  |
| 12.65 | 25 | 14.81 | 48.13 | 37.06 | 38.90 | 1.15  | 8.65  | 4.32  | 3.17  | 0.0  | 0.0  | 0.0   | 34.3  | 2.88 |
| 13.72 | 11 | 59.44 | 26.91 | 13.65 | 53.54 | 6.23  | 15.86 | 20.40 | 0.85  | 1.13 | 0.0  | 0.0   | 1.41  | 0.0  |
| 14.49 | 26 | 1.88  | 72.17 | 25.95 | 37.38 | 0.96  | 20.13 | 9.27  | 0.0   | 0.0  | 0.0  | 0.32  | 22.8  | 0.0  |
| 15.25 | 12 | 48.41 | 34.72 | 16.87 | 51.30 | 5.73  | 17.97 | 20.31 | 0.52  | 1.56 | 0.0  | 0.0   | 1.56  | 0.0  |
| 15.97 | 27 | 2.83  | 62.27 | 34.90 | 29.54 | 2.15  | 11.69 | 6.77  | 0.0   | 0.0  | 0.0  | 12.31 | 33.85 | 0.0  |
| 16.77 | 13 | 66.14 | 24.14 | 9.72  | 54.97 | 5.28  | 19.57 | 15.53 | 0.0   | 2.48 | 0.0  | 0.0   | 0.62  | 0.0  |
| 17.54 | 14 | —     | —     | —     | 71.48 | 3.61  | 11.15 | 10.49 | 0.0   | 0.0  | 0.0  | 0.33  | 0.99  | 0.0  |
| 19.06 | 15 | —     | —     | —     | 66.87 | 3.04  | 15.20 | 10.33 | 0.91  | 0.0  | 0.0  | 0.61  | 0.3   | 0.0  |
| 20.59 | 16 | —     | —     | —     | 63.77 | 3.89  | 14.37 | 11.68 | 0.6   | 0.6  | 0.0  | 0.6   | 0.6   | 0.0  |
| 22.11 | 17 | —     | —     | —     | 67.33 | 3.41  | 14.49 | 11.65 | 1.14  | 0.0  | 0.0  | 0.28  | 0.57  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S59

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT  | EVAP | LITH | AGG | PLTM  | FORB  | FORP |
|-------|----|-------|-------|-------|-------|-------|-------|-------|-------|------|------|-----|-------|-------|------|
| surf  | 1  | 95.66 | 0.69  | 3.65  | 31.57 | 44.44 | 2.02  | 7.83  | 14.14 | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 0.61  | 2  | —     | —     | —     | 74.28 | 7.51  | 10.12 | 7.23  | 0.0   | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 1.83  | 3  | —     | —     | —     | 62.65 | 15.43 | 9.57  | 8.95  | 3.4   | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 3.20  | 4  | —     | —     | —     | 74.37 | 6.69  | 10.03 | 7.80  | 0.84  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 4.73  | 5  | —     | —     | —     | 44.47 | 34.12 | 6.59  | 8.0   | 6.82  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 6.25  | 6  | —     | —     | —     | 50.90 | 15.27 | 13.47 | 18.86 | 1.2   | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 7.78  | 7  | —     | —     | —     | 49.86 | 6.52  | 14.73 | 26.06 | 2.55  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 9.30  | 8  | —     | —     | —     | 46.32 | 7.36  | 15.80 | 26.70 | 3.27  | 0.0  | 0.0  | 0.0 | 0.54  | 0.0   | 0.0  |
| 10.83 | 9  | —     | —     | —     | 54.73 | 17.16 | 9.17  | 16.86 | 2.07  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 11.89 | 31 | 0.18  | 47.54 | 52.28 | 43.22 | 5.36  | 3.79  | 9.46  | 3.79  | 0.0  | 0.0  | 0.0 | 30.6  | 0.95  | 0.0  |
| 13.12 | 10 | 0.67  | 47.55 | 51.78 | 45.48 | 20.70 | 10.79 | 7.29  | 11.37 | 0.0  | 0.0  | 0.0 | 2.62  | 0.58  | 0.0  |
| 14.07 | 32 | 0.30  | 37.64 | 62.06 | 42.43 | 31.16 | 1.78  | 4.75  | 2.08  | 0.0  | 0.0  | 0.3 | 4.45  | 11.27 | 0.0  |
| 14.64 | 11 | 20.64 | 59.89 | 19.47 | 9.12  | 7.12  | 20.23 | 40.17 | 1.42  | 0.85 | 0.0  | 0.0 | 0.57  | 5.70  | 0.85 |
| 16.17 | 12 | 0.99  | 44.78 | 54.23 | 8.57  | 10.78 | 37.26 | 5.57  | 2.36  | 0.0  | 0.0  | 0.0 | 13.49 | 5.78  | 0.21 |
| 17.31 | 33 | 0.51  | 35.59 | 63.90 | 31.48 | 5.01  | 7.24  | 8.64  | 0.56  | 1.11 | 0.0  | 0.0 | 42.07 | 1.95  | 0.0  |
| 17.69 | 13 | 52.16 | 35.18 | 12.66 | 71.06 | 6.11  | 12.54 | 8.68  | 0.0   | 0.0  | 0.0  | 0.0 | 0.0   | 0.30  | 0.32 |
| 18.30 | 14 | 61.36 | 19.15 | 19.49 | 76.81 | 6.02  | 10.24 | 6.33  | 0.30  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 19.06 | 15 | —     | —     | —     | 48.71 | 18.62 | 10.89 | 15.19 | 6.02  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 20.59 | 16 | —     | —     | —     | 40.17 | 23.88 | 12.08 | 14.61 | 9.27  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 22.11 | 17 | —     | —     | —     | 45.86 | 14.01 | 15.92 | 19.11 | 5.10  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 23.64 | 18 | —     | —     | —     | 49.25 | 18.66 | 9.70  | 13.93 | 6.97  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 25.16 | 19 | —     | —     | —     | 44.84 | 20.42 | 11.03 | 13.62 | 8.92  | 0.0  | 0.0  | 0.0 | 1.17  | 0.0   | 0.0  |
| 26.69 | 20 | —     | —     | —     | 43.73 | 24.79 | 9.75  | 12.53 | 8.91  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 27.69 | 34 | 1.13  | 52.24 | 46.63 | 40.38 | 6.41  | 3.85  | 5.45  | 0.0   | 0.0  | 0.64 | 0.0 | 41.99 | 0.0   | 0.0  |
| 27.76 | 21 | 83.00 | 8.68  | 8.32  | 69.41 | 10.00 | 7.35  | 9.41  | 3.82  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 28.37 | 22 | —     | —     | —     | 39.10 | 22.69 | 11.97 | 14.46 | 10.72 | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 29.74 | 23 | —     | —     | —     | 45.74 | 13.88 | 11.04 | 13.56 | 14.83 | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 31.26 | 24 | —     | —     | —     | 55.59 | 14.50 | 12.99 | 13.29 | 3.02  | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 32.79 | 25 | —     | —     | —     | 44.57 | 26.98 | 7.33  | 9.97  | 10.85 | 0.0  | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 34.31 | 26 | —     | —     | —     | 39.47 | 30.40 | 5.87  | 7.73  | 15.20 | 0.53 | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 35.84 | 27 | —     | —     | —     | 62.30 | 10.70 | 9.63  | 9.89  | 5.88  | 0.27 | 0.0  | 0.0 | 0.0   | 0.0   | 0.0  |
| 37.36 | 28 | —     | —     | —     | 55.56 | 7.50  | 12.78 | 17.78 | 2.50  | 0.56 | 0.0  | 0.0 | 2.78  | 0.0   | 0.0  |
| 38.89 | 29 | —     | —     | —     | 48.90 | 17.03 | 5.49  | 17.03 | 9.34  | 0.82 | 0.0  | 0.0 | 0.82  | 0.0   | 0.0  |
| 40.41 | 30 | —     | —     | —     | 52.80 | 13.66 | 8.07  | 17.39 | 5.28  | 1.24 | 0.0  | 0.0 | 0.62  | 0.0   | 0.0  |





## APPENDIX 2.—Continued.

## CORE S60

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU  | PYRT  | EVAP | LITH | AGG  | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|------|-------|-------|-------|------|------|------|-------|------|
| 0.0   | 1  | 38.71 | 37.39 | 23.90 | 54.60 | 9.82 | 11.35 | 10.74 | 1.53  | 1.53 | 0.0  | 0.0  | 7.66  | 0.0  |
| 1.53  | 2  | 29.83 | 52.78 | 17.39 | 43.15 | 7.14 | 18.45 | 22.02 | 0.60  | 3.57 | 0.0  | 0.89 | 0.30  | 0.0  |
| 1.83  | 3  | 14.92 | 67.69 | 17.39 | 49.38 | 1.85 | 20.68 | 22.22 | 1.85  | 1.85 | 0.0  | 0.0  | 0.0   | 0.0  |
| 2.44  | 4  | -     | -     | -     | 59.31 | 4.42 | 11.67 | 17.98 | 2.52  | 0.0  | 0.0  | 0.0  | 0.95  | 0.0  |
| 3.81  | 5  | -     | -     | -     | 58.04 | 5.99 | 10.09 | 18.93 | 5.36  | 0.0  | 0.0  | 0.0  | 0.63  | 0.0  |
| 5.03  | 6  | -     | -     | -     | 46.11 | 4.98 | 12.46 | 27.73 | 2.49  | 2.49 | 0.0  | 0.0  | 1.86  | 0.0  |
| 5.57  | 23 | 4.44  | 23.89 | 71.67 | 14.67 | 1.97 | 3.40  | 2.86  | 0.36  | 0.36 | 0.0  | 0.0  | 74.42 | 0.18 |
| 6.51  | 24 | 51.00 | 32.55 | 16.45 | 5.14  | 0.64 | 1.29  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 92.61 | 0.0  |
| 7.63  | 7  | 1.25  | 30.38 | 68.36 | 14.61 | 0.0  | 0.9   | 3.82  | 11.46 | 0.45 | 0.0  | 0.0  | 68.77 | 0.0  |
| 8.47  | 25 | 4.53  | 77.34 | 18.12 | 11.04 | 1.3  | 2.6   | 1.3   | 0.0   | 0.0  | 0.0  | 0.0  | 73.70 | 0.0  |
| 9.15  | 8  | 34.57 | 35.97 | 29.47 | 15.99 | 0.58 | 2.03  | 2.33  | 0.0   | 2.91 | 0.0  | 0.0  | 75.58 | 0.0  |
| 9.30  | 26 | 2.18  | 42.51 | 55.31 | 10.80 | 1.08 | 2.16  | 2.81  | 4.75  | 0.22 | 0.0  | 0.0  | 73.86 | 1.29 |
| 10.67 | 9  | 13.54 | 23.64 | 62.82 | 3.94  | 0.26 | 0.52  | 0.79  | 1.57  | 0.52 | 0.0  | 0.0  | 91.86 | 0.0  |
| 10.84 | 27 | 3.32  | 38.02 | 58.66 | 10.70 | 1.41 | 0.85  | 2.25  | 2.54  | 0.0  | 0.0  | 0.0  | 76.62 | 3.10 |
| 11.70 | 28 | 1.08  | 31.25 | 67.67 | 26.46 | 1.41 | 5.15  | 5.85  | 0.0   | 0.70 | 0.0  | 0.0  | 59.62 | 0.0  |
| 12.20 | 10 | 59.90 | 28.75 | 11.35 | 62.85 | 3.41 | 8.05  | 20.43 | 1.24  | 1.55 | 0.0  | 0.0  | 0.31  | 0.0  |
| 12.96 | 11 | -     | -     | -     | 54.15 | 5.73 | 9.74  | 18.91 | 4.01  | 1.43 | 0.0  | 0.0  | 0.57  | 0.0  |
| 14.49 | 12 | -     | -     | -     | 61.38 | 7.20 | 8.07  | 17.58 | 2.88  | 0.0  | 0.0  | 0.0  | 0.86  | 0.0  |
| 16.01 | 13 | -     | -     | -     | 61.19 | 5.38 | 9.92  | 17.0  | 0.85  | 1.13 | 0.0  | 0.0  | 1.14  | 0.0  |
| 17.54 | 14 | -     | -     | -     | 69.11 | 7.07 | 6.28  | 12.30 | 1.31  | 1.57 | 0.0  | 0.52 | 0.79  | 0.26 |
| 19.06 | 15 | -     | -     | -     | 58.94 | 6.45 | 9.68  | 14.96 | 5.28  | 0.29 | 0.0  | 0.88 | 0.88  | 0.59 |
| 20.59 | 16 | -     | -     | -     | 68.55 | 4.45 | 5.34  | 16.62 | 1.48  | 0.0  | 0.59 | 0.0  | 1.49  | 0.0  |
| 22.11 | 17 | -     | -     | -     | 70.55 | 7.98 | 5.52  | 11.04 | 0.92  | 0.92 | 0.0  | 0.0  | 0.31  | 0.0  |
| 23.64 | 18 | -     | -     | -     | 77.33 | 3.73 | 4.97  | 10.56 | 1.55  | 0.31 | 0.0  | 0.0  | 0.31  | 0.0  |
| 25.16 | 19 | -     | -     | -     | 82.08 | 6.60 | 4.72  | 4.40  | 0.94  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 26.69 | 20 | -     | -     | -     | 63.95 | 8.15 | 8.46  | 14.42 | 2.19  | 0.0  | 0.0  | 0.0  | 0.63  | 0.31 |
| 28.21 | 21 | -     | -     | -     | 68.06 | 5.28 | 10.83 | 14.44 | 0.83  | 0.0  | 0.0  | 0.0  | 0.28  | 0.0  |
| 29.71 | 22 | -     | -     | -     | 68.35 | 7.84 | 12.89 | 8.68  | 0.56  | 0.0  | 0.0  | 0.0  | 0.84  | 0.28 |

## APPENDIX 2.—Continued.

## CORE S60

| DEPTH | NO | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | DIAT | OTH  | CARBON-14     |
|-------|----|------|------|------|------|------|------|------|------|------|------|---------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.76 |               |
| 1.53  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.89 | 0.0  | 0.0  | 2.98 |               |
| 1.83  | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.16 |               |
| 2.44  | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.15 |               |
| 3.81  | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.95 |               |
| 5.03  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.87 |               |
| 5.57  | 23 | 0.0  | 0.0  | 0.18 | 0.18 | 1.43 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 6.51  | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 7.63  | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 8.47  | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.09 | 0.0  | 0.97 | 0.0  |               |
| 9.15  | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.58 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4,760 +/- 110 |
| 9.30  | 26 | 0.0  | 0.0  | 1.08 | 0.0  | 0.0  | 0.22 | 0.65 | 0.22 | 0.86 | 0.0  |               |
| 10.67 | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.52 | 0.0  | 0.0  | 0.0  |               |
| 10.84 | 27 | 0.0  | 0.0  | 0.56 | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.28 | 1.41 |               |
| 11.70 | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.47 | 0.23 | 0.0  |               |
| 12.20 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.93 | 0.0  | 0.0  | 1.24 |               |
| 12.96 | 11 | 0.57 | 0.29 | 0.57 | 0.0  | 0.86 | 2.01 | 0.0  | 0.0  | 0.0  | 1.15 |               |
| 14.49 | 12 | 0.29 | 0.0  | 0.29 | 0.0  | 0.29 | 0.29 | 0.0  | 0.0  | 0.29 | 0.58 |               |
| 16.01 | 13 | 0.0  | 0.28 | 0.28 | 0.57 | 0.0  | 0.57 | 0.28 | 0.0  | 0.28 | 1.13 |               |
| 17.54 | 14 | 0.26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.52 |               |
| 19.06 | 15 | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.29 | 0.29 | 0.29 | 0.88 |               |
| 20.59 | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.59 | 0.0  | 0.0  | 0.0  | 0.59 |               |
| 22.11 | 17 | 0.0  | 0.0  | 0.31 | 0.0  | 0.31 | 0.31 | 0.0  | 0.0  | 0.0  | 1.84 |               |
| 23.64 | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.24 |               |
| 25.16 | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.26 |               |
| 26.69 | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.31 | 1.25 |               |
| 28.21 | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 29.71 | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.28 | 0.28 | 0.0  | 0.0  | 0.0  | 0.0  |               |

## APPENDIX 2.—Continued.

## CORE S61

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MCA   | GLAU  | PYRT | EVAP  | LITH | AGG  | PLTM  | FORB  |
|-------|----|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|-------|-------|
| surf  | 1  | 9.15  | 31.95 | 58.90 | 77.39 | 2.32  | 5.22  | 2.9   | 0.58 | 0.0   | 0.0  | 0.58 | 3.19  | 0.58  |
| 1.22  | 2  | 0.81  | 39.04 | 60.15 | 46.20 | 4.75  | 11.39 | 8.86  | 0.63 | 0.0   | 0.0  | 4.11 | 4.75  | 1.59  |
| 3.05  | 3  | 2.80  | 16.28 | 80.92 | 61.54 | 3.13  | 3.37  | 1.68  | 0.0  | 0.0   | 0.0  | 0.0  | 1.44  | 12.74 |
| 4.57  | 4  | 2.55  | 37.15 | 60.29 | 28.40 | 1.54  | 10.49 | 2.47  | 0.62 | 55.25 | 0.0  | 0.0  | 0.0   | 0.0   |
| 5.35  | 29 | 0.54  | 36.93 | 62.53 | 63.83 | 3.04  | 11.85 | 8.51  | 0.0  | 3.65  | 0.0  | 0.0  | 0.61  | 3.96  |
| 6.10  | 5  | 3.44  | 34.08 | 62.48 | 43.71 | 3.59  | 19.46 | 21.56 | 1.20 | 0.30  | 0.30 | 1.50 | 4.79  | 0.0   |
| 6.13  | 6A | 1.26  | 26.92 | 71.83 | 30.09 | 1.57  | 10.03 | 8.46  | 5.02 | 1.88  | 0.0  | 0.0  | 41.06 | 0.0   |
| 6.59  | 30 | 11.82 | 41.11 | 47.07 | 46.25 | 9.06  | 15.0  | 21.88 | 1.56 | 0.94  | 0.0  | 0.63 | 1.88  | 0.0   |
| 7.62  | 6B | 55.15 | 27.68 | 17.17 | 82.13 | 3.76  | 3.76  | 8.46  | 0.31 | 0.31  | 0.0  | 0.0  | 0.0   | 0.0   |
| 9.06  | 31 | 12.30 | 65.31 | 22.40 | 38.89 | 13.89 | 15.74 | 21.30 | 0.93 | 0.31  | 0.0  | 0.0  | 4.94  | 0.0   |
| 9.45  | 7  | 53.15 | 33.89 | 12.96 | 47.37 | 3.72  | 20.12 | 19.81 | 0.93 | 0.62  | 0.0  | 0.93 | 5.26  | 0.0   |
| 10.06 | 8  | —     | —     | —     | 56.15 | 9.15  | 9.78  | 19.24 | 0.63 | 0.0   | 0.0  | 2.21 | 0.0   | 0.63  |
| 10.85 | 32 | 7.65  | 69.54 | 22.81 | 22.73 | 9.09  | 24.55 | 27.58 | 0.0  | 0.91  | 0.0  | 0.0  | 6.97  | 0.0   |
| 12.20 | 9  | 0.77  | 27.70 | 71.53 | 4.89  | 0.29  | 0.29  | 0.86  | 2.01 | 0.29  | 0.0  | 0.0  | 90.23 | 0.0   |
| 12.81 | 33 | 1.41  | 10.22 | 88.37 | 51.98 | 5.17  | 7.29  | 6.38  | 0.61 | 0.0   | 0.0  | 3.04 | 24.32 | 0.0   |
| 13.72 | 10 | 60.13 | 22.65 | 17.21 | 0.64  | 0.0   | 0.0   | 0.0   | 0.0  | 1.29  | 0.0  | 0.0  | 97.74 | 0.0   |
| 15.55 | 11 | 78.27 | 8.84  | 12.89 | 0.30  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 98.77 | 0.0   |
| 17.38 | 12 | 72.43 | 16.25 | 11.33 | 92.23 | 3.56  | 1.62  | 2.59  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 17.84 | 13 | —     | —     | —     | 78.06 | 2.51  | 2.82  | 3.13  | 0.31 | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 19.06 | 14 | —     | —     | —     | 88.27 | 2.61  | 1.30  | 5.86  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.33  |
| 20.59 | 15 | —     | —     | —     | 89.63 | 0.67  | 1.34  | 5.69  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 22.11 | 16 | —     | —     | —     | 89.46 | 2.24  | 0.96  | 4.79  | 0.0  | 0.0   | 0.32 | 0.0  | 0.0   | 0.0   |
| 23.64 | 17 | —     | —     | —     | 85.02 | 5.50  | 0.61  | 4.89  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 25.16 | 18 | —     | —     | —     | 90.46 | 1.32  | 1.64  | 4.93  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 26.69 | 19 | —     | —     | —     | 86.31 | 4.46  | 2.55  | 6.05  | 0.0  | 0.0   | 0.0  | 0.0  | 0.32  | 0.0   |
| 28.21 | 20 | —     | —     | —     | 81.93 | 4.98  | 3.74  | 6.23  | 0.0  | 0.0   | 0.31 | 0.0  | 0.0   | 0.31  |
| 29.74 | 21 | —     | —     | —     | 88.68 | 1.89  | 1.57  | 7.23  | 0.0  | 0.0   | 0.0  | 0.0  | 0.31  | 0.0   |
| 31.26 | 22 | —     | —     | —     | 86.35 | 5.08  | 0.95  | 6.67  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 32.79 | 23 | —     | —     | —     | 90.71 | 1.60  | 1.92  | 3.85  | 0.0  | 0.0   | 0.32 | 0.0  | 0.0   | 0.0   |
| 34.31 | 24 | —     | —     | —     | 92.0  | 3.08  | 0.62  | 4.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   |
| 35.84 | 25 | —     | —     | —     | 90.63 | 1.88  | 0.63  | 5.94  | 0.0  | 0.0   | 0.31 | 0.0  | 0.0   | 0.0   |
| 37.36 | 26 | —     | —     | —     | 91.91 | 2.27  | 0.65  | 4.21  | 0.0  | 0.0   | 0.32 | 0.0  | 0.0   | 0.0   |
| 38.89 | 27 | —     | —     | —     | 90.32 | 3.23  | 0.97  | 4.52  | 0.0  | 0.0   | 0.65 | 0.0  | 0.0   | 0.0   |
| 40.41 | 28 | —     | —     | —     | 84.39 | 7.01  | 0.64  | 5.73  | 0.0  | 0.0   | 0.96 | 0.0  | 0.0   | 0.0   |





## APPENDIX 2.—Continued.

## CORE S62

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU  | PYRT  | EVAP  | LITH | AGG  | PLTM  | FORB  |
|-------|----|-------|-------|-------|-------|------|-------|-------|-------|-------|------|------|-------|-------|
| surf  | 1  | 13.35 | 59.12 | 27.53 | 26.11 | 1.78 | 2.08  | 1.78  | 1.19  | 15.73 | 0.0  | 3.56 | 45.40 | 0.60  |
| 1.85  | 17 | 11.70 | 37.96 | 50.34 | 27.74 | 1.61 | 4.19  | 2.58  | 0.0   | 0.0   | 0.0  | 0.0  | 60.97 | 0.32  |
| 3.35  | 2  | 2.65  | 40.44 | 56.91 | 57.91 | 6.78 | 1.69  | 3.67  | 0.56  | 2.26  | 0.0  | 0.0  | 7.62  | 11.58 |
| 3.78  | 18 | 0.72  | 29.07 | 70.21 | 18.39 | 3.01 | 4.68  | 1.00  | 0.0   | 0.0   | 0.0  | 0.0  | 1.34  | 54.52 |
| 4.57  | 3  | 6.82  | 55.57 | 37.61 | 45.69 | 4.47 | 20.45 | 24.28 | 0.0   | 0.96  | 0.0  | 0.0  | 0.96  | 0.0   |
| 4.60  | 4  | 21.46 | 31.84 | 46.69 | 41.18 | 3.72 | 11.46 | 7.12  | 0.0   | 0.62  | 0.0  | 1.86 | 15.48 | 6.5   |
| 4.82  | 19 | 1.18  | 34.49 | 64.34 | 36.67 | 2.42 | 6.97  | 1.52  | 0.3   | 0.0   | 0.0  | 0.0  | 27.88 | 12.73 |
| 6.10  | 5  | 5.50  | 26.51 | 67.99 | 24.71 | 0.0  | 8.33  | 2.01  | 0.86  | 0.0   | 0.0  | 0.0  | 54.6  | 5.18  |
| 6.72  | 20 | 0.32  | 59.57 | 40.11 | 9.97  | 0.28 | 3.42  | 0.57  | 27.35 | 0.0   | 0.0  | 0.0  | 55.55 | 1.42  |
| 7.62  | 6  | 10.79 | 62.62 | 26.59 | 30.23 | 0.85 | 17.23 | 14.12 | 0.0   | 0.0   | 1.69 | 0.0  | 34.18 | 0.0   |
| 9.15  | 7  | 3.33  | 67.37 | 29.30 | 22.48 | 1.81 | 12.66 | 7.49  | 0.0   | 0.26  | 0.0  | 0.26 | 53.23 | 0.0   |
| 10.67 | 8  | 1.41  | 63.43 | 35.16 | 8.92  | 0.32 | 9.87  | 1.59  | 0.32  | 0.0   | 0.0  | 0.0  | 76.44 | 0.0   |
| 12.20 | 9  | 57.55 | 13.38 | 29.07 | 4.56  | 0.0  | 0.0   | 0.61  | 0.0   | 0.0   | 0.0  | 0.0  | 94.83 | 0.0   |
| 13.71 | 10 | 47.56 | 22.68 | 29.76 | 10.98 | 0.29 | 0.58  | 0.29  | 0.0   | 7.80  | 0.0  | 0.0  | 79.19 | 0.0   |
| 16.47 | 11 | 12.15 | 45.45 | 42.40 | 43.68 | 2.75 | 4.40  | 6.87  | 1.37  | 0.27  | 0.0  | 0.0  | 39.28 | 0.0   |
| 17.07 | 21 | 0.94  | 60.12 | 38.94 | 29.52 | 1.33 | 18.35 | 7.18  | 0.0   | 0.0   | 0.0  | 0.0  | 39.36 | 0.0   |
| 17.99 | 12 | 81.94 | 10.01 | 8.05  | 93.89 | 2.89 | 0.32  | 0.64  | 0.0   | 0.0   | 0.0  | 0.0  | 0.64  | 0.0   |
| 18.91 | 13 | -     | -     | -     | 82.20 | 2.82 | 3.39  | 4.80  | 0.0   | 0.0   | 0.0  | 0.0  | 2.26  | 0.0   |
| 20.59 | 14 | -     | -     | -     | 86.14 | 1.98 | 2.31  | 5.28  | 0.0   | 0.0   | 1.32 | 0.33 | 0.0   | 0.0   |
| 22.11 | 15 | -     | -     | -     | 80.75 | 4.35 | 2.48  | 8.07  | 0.0   | 0.0   | 1.24 | 0.31 | 1.24  | 0.0   |
| 23.64 | 16 | -     | -     | -     | 85.71 | 5.28 | 4.66  | 2.48  | 0.0   | 0.0   | 0.31 | 0.31 | 0.62  | 0.0   |

## APPENDIX 2.—Continued.

## CORE S62

| DEPTH | NO | GSHW | SHLO | OSTR  | SPNG | ECHN | DIAT | OTH  | CARBON-14     |
|-------|----|------|------|-------|------|------|------|------|---------------|
| surf  | 1  | 0.0  | 0.0  | 0.59  | 0.0  | 0.0  | 0.0  | 1.19 |               |
| 1.85  | 17 | 0.0  | 0.0  | 0.97  | 0.0  | 0.0  | 0.65 | 0.97 |               |
| 3.35  | 2  | 0.28 | 1.41 | 2.82  | 0.0  | 0.0  | 0.0  | 3.39 |               |
| 3.78  | 18 | 0.0  | 0.33 | 16.72 | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 4.57  | 3  | 0.0  | 0.0  | 0.32  | 0.0  | 0.0  | 0.0  | 2.88 |               |
| 4.60  | 4  | 0.31 | 2.48 | 3.72  | 0.0  | 0.0  | 0.0  | 5.57 |               |
| 4.82  | 19 | 0.0  | 4.55 | 6.97  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 6.10  | 5  | 0.0  | 2.87 | 0.86  | 0.0  | 0.29 | 0.29 | 0.0  | 3,660 +/- 70  |
| 6.72  | 20 | 0.0  | 0.0  | 0.0   | 0.85 | 0.0  | 0.0  | 0.57 |               |
| 7.62  | 6  | 0.0  | 0.0  | 0.0   | 0.85 | 0.28 | 0.0  | 0.56 |               |
| 9.15  | 7  | 0.0  | 0.0  | 0.0   | 1.03 | 0.52 | 0.0  | 0.26 |               |
| 10.67 | 8  | 0.0  | 0.0  | 0.0   | 1.91 | 0.64 | 0.0  | 0.0  |               |
| 12.20 | 9  | 0.0  | 0.0  | 0.0   | 0.29 | 0.58 | 0.0  | 0.0  | 6,220 +/- 100 |
| 13.71 | 10 | 0.0  | 0.0  | 0.0   | 1.10 | 0.27 | 0.0  | 0.0  |               |
| 16.47 | 11 | 0.0  | 0.0  | 0.0   | 4.26 | 0.0  | 0.0  | 0.0  |               |
| 17.07 | 21 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 17.99 | 12 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 1.61 |               |
| 18.91 | 13 | 0.0  | 0.56 | 1.41  | 0.0  | 0.0  | 0.0  | 2.54 |               |
| 20.59 | 14 | 0.0  | 0.66 | 0.0   | 0.0  | 0.0  | 0.0  | 1.98 |               |
| 22.11 | 15 | 0.0  | 0.62 | 0.0   | 0.0  | 0.0  | 0.0  | 0.93 |               |
| 23.64 | 16 | 0.0  | 0.31 | 0.0   | 0.0  | 0.0  | 0.0  | 0.31 |               |

## APPENDIX 2.—Continued.

| CORE S63 |       | DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MCA   | GLAU  | PYRT | EVAP | LITH | AGG  | PLTM  | FORB |
|----------|-------|-------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|
|          | surf  |       | 1  | 98.83 | 0.04  | 1.14  | 65.84 | 13.04 | 4.97  | 8.07  | 7.76 | 0.31 | 0.0  | 0.0  | 0.0   | 0.0  |
|          | 0.76  |       | 2  | -     | -     | -     | 66.67 | 8.10  | 9.66  | 12.77 | 2.80 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
|          | 2.29  |       | 3  | -     | -     | -     | 56.17 | 7.10  | 14.51 | 17.28 | 4.01 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
|          | 3.81  |       | 4  | -     | -     | -     | 61.80 | 6.10  | 11.41 | 14.32 | 4.24 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
|          | 5.34  |       | 5  | -     | -     | -     | 70.75 | 5.66  | 12.26 | 8.81  | 0.96 | 0.31 | 0.31 | 0.0  | 0.0   | 0.0  |
|          | 6.86  |       | 6  | -     | -     | -     | 59.68 | 10.48 | 11.43 | 12.38 | 4.76 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
|          | 8.34  |       | 7  | -     | -     | -     | 58.81 | 8.36  | 13.73 | 13.73 | 2.39 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
|          | 9.91  |       | 8  | -     | -     | -     | 47.25 | 8.09  | 21.04 | 18.77 | 1.62 | 0.97 | 0.0  | 0.0  | 0.0   | 0.0  |
|          | 11.44 |       | 9  | -     | -     | -     | 52.54 | 6.87  | 17.91 | 16.42 | 2.99 | 0.3  | 0.3  | 0.0  | 0.0   | 0.0  |
|          | 12.96 |       | 10 | -     | -     | -     | 49.55 | 11.28 | 13.65 | 18.69 | 2.97 | 0.89 | 0.3  | 0.0  | 0.0   | 0.3  |
|          | 14.49 |       | 11 | -     | -     | -     | 54.95 | 10.44 | 10.99 | 17.86 | 3.57 | 0.82 | 0.0  | 0.27 | 0.0   | 0.55 |
|          | 16.01 |       | 12 | -     | -     | -     | 57.46 | 11.43 | 12.38 | 13.02 | 5.08 | 0.0  | 0.0  | 0.0  | 0.0   | 0.32 |
|          | 17.23 |       | 13 | -     | -     | -     | 62.19 | 8.75  | 12.19 | 14.38 | 0.94 | 0.0  | 0.0  | 0.31 | 0.0   | 0.31 |
|          | 17.86 |       | 17 | 11.20 | 76.11 | 12.69 | 24.56 | 0.89  | 0.89  | 1.18  | 0.3  | 0.0  | 0.0  | 0.0  | 68.94 | 0.0  |
|          | 18.39 |       | 18 | 3.89  | 76.70 | 19.41 | 13.42 | 1.01  | 1.01  | 0.76  | 0.51 | 0.25 | 0.0  | 0.0  | 78.48 | 0.0  |
|          | 19.03 |       | 19 | 41.09 | 38.26 | 20.66 | 2.74  | 0.61  | 0.0   | 0.0   | 0.0  | 2.13 | 0.0  | 0.0  | 96.99 | 0.0  |
|          | 0.0   |       | 14 | 59.94 | 29.12 | 10.94 | 72.78 | 5.06  | 9.18  | 8.86  | 1.27 | 0.0  | 0.0  | 0.32 | 1.90  | 0.0  |
|          | 19.98 |       | 15 | -     | -     | -     | 64.58 | 7.21  | 10.66 | 14.73 | 1.25 | 0.0  | 0.0  | 0.94 | 0.0   | 0.31 |
|          | 21.50 |       | 16 | -     | -     | -     | 63.83 | 9.73  | 10.94 | 11.55 | 1.52 | 0.61 | 0.0  | 0.61 | 0.0   | 0.3  |

## APPENDIX 2.—Continued.

## CORE S63

| DEPTH | NO | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | OTH  | CARBON-14     |
|-------|----|------|------|------|------|------|------|------|---------------|
| surf  | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 0.76  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 2.29  | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.93 |               |
| 3.81  | 4  | 0.0  | 0.0  | 0.27 | 0.0  | 0.0  | 0.0  | 1.86 |               |
| 5.34  | 5  | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.63 |               |
| 6.86  | 6  | 0.32 | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  | 0.63 |               |
| 8.34  | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.99 |               |
| 9.91  | 8  | 0.0  | 0.65 | 0.32 | 0.0  | 0.32 | 0.32 | 0.65 |               |
| 11.44 | 9  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.3  | 1.79 |               |
| 12.96 | 10 | 0.0  | 0.0  | 0.59 | 0.0  | 0.0  | 0.3  | 1.48 |               |
| 14.49 | 11 | 0.0  | 0.27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.27 |               |
| 16.01 | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 |               |
| 17.23 | 13 | 0.0  | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  | 0.31 |               |
| 17.86 | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 3.25 | 0.0  | 0.0  |               |
| 18.39 | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 4.56 | 0.0  | 0.0  |               |
| 19.03 | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 1.52 | 0.0  | 0.0  | 6,590 +/- 110 |
| 0.0   | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.32 |               |
| 19.98 | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.31 | 0.0  |               |
| 21.50 | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.91 |               |



## APPENDIX 2.—Continued.

## CORE S64

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT | EVAP | LITH | AGG  | PLTM  | FORB | FORP |
|-------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|------|------|
| surf  | 1  | 98.55 | 0.00  | 1.45  | 78.26 | 12.11 | 2.80  | 4.66  | 1.24 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 0.76  | 2  | -     | -     | -     | 75.30 | 8.84  | 7.62  | 8.23  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 2.29  | 3  | -     | -     | -     | 72.84 | 10.15 | 6.87  | 8.06  | 2.09 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 3.81  | 4  | -     | -     | -     | 63.77 | 14.67 | 5.09  | 12.57 | 3.89 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 5.34  | 5  | -     | -     | -     | 75.24 | 6.98  | 9.21  | 7.62  | 0.95 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 6.86  | 6  | -     | -     | -     | 71.67 | 7.78  | 11.39 | 8.61  | 0.56 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 7.65  | 31 | 1.50  | 57.53 | 40.96 | 7.19  | 0.0   | 37.91 | 3.92  | 0.0  | 0.0  | 0.0  | 0.0  | 47.39 | 0.65 | 0.0  |
| 8.24  | 7  | 72.96 | 20.26 | 6.77  | 59.52 | 11.18 | 16.01 | 11.48 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 8.69  | 8  | -     | -     | -     | 48.79 | 13.40 | 20.11 | 15.82 | 1.88 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 9.91  | 9  | -     | -     | -     | 53.10 | 18.33 | 13.48 | 13.48 | 1.62 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 11.44 | 10 | -     | -     | -     | 44.75 | 14.92 | 16.57 | 22.93 | 0.55 | 0.28 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 12.96 | 11 | -     | -     | -     | 38.91 | 17.93 | 17.02 | 23.71 | 1.82 | 0.61 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 13.87 | 32 | 0.53  | 60.32 | 39.15 | 39.88 | 2.15  | 26.07 | 7.06  | 0.0  | 0.92 | 0.61 | 0.0  | 21.16 | 0.0  | 0.0  |
| 14.58 | 33 | 2.43  | 41.79 | 55.78 | 49.84 | 4.15  | 14.38 | 16.61 | 0.64 | 0.96 | 0.0  | 0.0  | 8.63  | 0.64 | 0.0  |
| 15.25 | 12 | 0.15  | 38.21 | 61.64 | 60.79 | 11.85 | 6.38  | 13.37 | 1.57 | 0.0  | 0.0  | 0.0  | 2.13  | 0.91 | 0.0  |
| 15.52 | 34 | 0.98  | 30.20 | 68.82 | 14.89 | 1.29  | 7.77  | 1.62  | 0.0  | 0.32 | 0.0  | 0.65 | 72.49 | 0.0  | 0.0  |
| 16.17 | 13 | 67.81 | 22.59 | 9.60  | 68.99 | 8.70  | 10.72 | 9.57  | 1.45 | 0.0  | 0.0  | 0.0  | 0.0   | 0.29 | 0.0  |
| 16.62 | 14 | -     | -     | -     | 60.29 | 15.59 | 7.35  | 11.18 | 3.53 | 0.59 | 0.0  | 0.0  | 0.0   | 0.29 | 0.0  |
| 18.61 | 15 | 26.95 | 40.52 | 32.53 | 60.98 | 9.02  | 7.56  | 12.20 | 0.98 | 0.0  | 0.0  | 0.0  | 1.95  | 2.19 | 0.0  |
| 19.05 | 35 | 0.09  | 27.76 | 72.15 | 30.77 | 0.59  | 0.59  | 2.37  | 5.03 | 0.0  | 0.0  | 0.0  | 46.15 | 7.39 | 0.0  |
| 19.75 | 36 | 89.47 | 4.25  | 6.28  | 80.00 | 4.92  | 4.92  | 6.46  | 0.62 | 0.31 | 0.62 | 0.0  | 0.0   | 0.31 | 0.0  |
| 20.13 | 16 | 20.52 | 25.44 | 54.04 | 55.28 | 8.94  | 6.10  | 5.28  | 1.22 | 0.81 | 4.07 | 2.85 | 4.48  | 3.66 | 1.62 |
| 20.89 | 17 | -     | -     | -     | 59.06 | 11.11 | 10.23 | 12.87 | 4.09 | 1.46 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 22.42 | 18 | -     | -     | -     | 60.06 | 11.76 | 11.46 | 13.62 | 1.24 | 0.62 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 23.79 | 19 | -     | -     | -     | 71.47 | 6.76  | 10.88 | 9.12  | 1.18 | 0.0  | 0.0  | 0.0  | 0.29  | 0.0  | 0.0  |
| 25.16 | 20 | -     | -     | -     | 67.51 | 10.41 | 11.99 | 9.15  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 26.69 | 21 | -     | -     | -     | 84.66 | 2.45  | 6.44  | 5.52  | 0.61 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 28.21 | 22 | -     | -     | -     | 72.17 | 11.30 | 8.70  | 6.52  | 1.30 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 29.74 | 23 | -     | -     | -     | 85.20 | 3.62  | 7.24  | 3.29  | 0.33 | 0.0  | 0.0  | 0.0  | 0.33  | 0.0  | 0.0  |
| 31.26 | 24 | -     | -     | -     | 72.44 | 10.26 | 9.94  | 5.45  | 0.64 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |
| 32.79 | 25 | -     | -     | -     | 60.56 | 11.49 | 12.11 | 12.11 | 2.17 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

| CORE S64 |    | DEPTH | NO | SAND | SILT | CLAY | LT    | HVY   | MICA | GLAU | PYRT | EVAP | LITH | AGG | PLTM | FORB | FORP |
|----------|----|-------|----|------|------|------|-------|-------|------|------|------|------|------|-----|------|------|------|
| 34.31    | 26 | -     | -  | -    | -    | -    | 76.38 | 7.06  | 7.67 | 6.44 | 1.23 | 0.61 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 35.84    | 27 | -     | -  | -    | -    | -    | 83.13 | 4.60  | 5.21 | 5.21 | 0.61 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 37.36    | 28 | -     | -  | -    | -    | -    | 76.16 | 5.57  | 8.67 | 4.33 | 1.86 | 1.24 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 38.89    | 29 | -     | -  | -    | -    | -    | 70.72 | 14.02 | 7.48 | 5.30 | 1.87 | 0.31 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 40.41    | 30 | -     | -  | -    | -    | -    | 77.06 | 6.47  | 6.76 | 7.94 | 1.18 | 0.29 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

| CORE S64 |    | CARBON-14 |      |      |      |      |      |      |      |      |      |
|----------|----|-----------|------|------|------|------|------|------|------|------|------|
| DEPTH    | NO | GSHW      | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | BRYO | DIAT | OTH  |
| surf     | 1  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.93 |
| 0.76     | 2  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.29     | 3  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3.81     | 4  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.34     | 5  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.86     | 6  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.65     | 31 | 0.0       | 0.0  | 0.0  | 0.98 | 0.0  | 0.98 | 0.0  | 0.0  | 0.0  | 0.98 |
| 8.24     | 7  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.21 |
| 8.69     | 8  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 9.91     | 9  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 11.44    | 10 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12.96    | 11 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13.87    | 32 | 0.0       | 0.0  | 0.0  | 0.61 | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 1.23 |
| 14.58    | 33 | 0.0       | 0.0  | 0.0  | 1.28 | 0.32 | 0.0  | 0.0  | 0.0  | 0.0  | 2.56 |
| 15.25    | 12 | 0.0       | 0.0  | 0.0  | 0.91 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 1.82 |
| 15.52    | 34 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.65 |
| 16.17    | 13 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  |
| 16.62    | 14 | 0.0       | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.88 |
| 18.61    | 15 | 0.0       | 0.0  | 0.0  | 0.98 | 0.0  | 0.73 | 0.24 | 0.49 | 0.0  | 2.68 |
| 19.05    | 35 | 0.0       | 0.0  | 0.0  | 5.92 | 0.0  | 0.0  | 0.0  | 0.30 | 0.0  | 0.59 |
| 19.75    | 36 | 0.0       | 0.0  | 0.0  | 0.92 | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.62 |
| 20.13    | 16 | 0.0       | 0.0  | 0.0  | 2.03 | 0.0  | 0.81 | 1.63 | 0.41 | 0.41 | 0.0  |
| 20.89    | 17 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.17 |
| 22.42    | 18 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.24 |
| 23.79    | 19 | 0.0       | 0.0  | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25.16    | 20 | 0.0       | 0.32 | 0.0  | 0.63 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 26.69    | 21 | 0.0       | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 28.21    | 22 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 29.74    | 23 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 31.26    | 24 | 0.32      | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.64 | 0.0  | 0.0  | 0.32 |
| 32.79    | 25 | 0.0       | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.24 |

## APPENDIX 2.—Continued.

| CORE S64 |    | CARBON-14 |      |      |      |      |      |      |      |      |      |
|----------|----|-----------|------|------|------|------|------|------|------|------|------|
| DEPTH    | NO | GSHW      | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | BRYO | DIAT | OTH  |
| 34.31    | 26 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.61 |
| 35.84    | 27 | 0.31      | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.61 |
| 37.36    | 28 | 0.31      | 0.0  | 0.0  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.55 |
| 38.89    | 29 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.31 |
| 40.41    | 30 | 0.0       | 0.0  | 0.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S65

| DEPTH | NO | SAND | SILT | CLAY | LT    | HVY   | MICA  | GLAU  | PYRT | EVAP | LITH | AGG  | PLTM | OTH  |
|-------|----|------|------|------|-------|-------|-------|-------|------|------|------|------|------|------|
| surf  | 1  | -    | -    | -    | 51.76 | 21.73 | 8.95  | 8.65  | 8.95 | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 |
| 0.76  | 2  | -    | -    | -    | 62.83 | 16.83 | 8.55  | 5.60  | 6.19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.29  | 3  | -    | -    | -    | 67.67 | 15.33 | 7.33  | 9.00  | 0.67 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 3.81  | 4  | -    | -    | -    | 67.33 | 13.00 | 7.67  | 10.00 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 |
| 5.34  | 5  | -    | -    | -    | 55.41 | 5.10  | 20.70 | 15.92 | 1.27 | 0.0  | 0.0  | 0.64 | 0.0  | 0.96 |
| 6.86  | 6  | -    | -    | -    | 55.67 | 5.33  | 9.33  | 23.67 | 1.33 | 0.0  | 0.0  | 0.0  | 0.0  | 4.67 |
| 9.91  | 8  | -    | -    | -    | 58.36 | 9.78  | 11.99 | 18.61 | 0.95 | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  |
| 12.96 | 10 | -    | -    | -    | 68.33 | 9.00  | 8.00  | 10.33 | 1.00 | 0.0  | 0.0  | 0.0  | 0.0  | 3.33 |
| 16.01 | 12 | -    | -    | -    | 54.27 | 12.95 | 12.95 | 16.80 | 1.1  | 0.0  | 0.83 | 0.0  | 0.0  | 1.1  |
| 19.06 | 14 | -    | -    | -    | 55.33 | 15.67 | 10.33 | 13.67 | 3.33 | 0.0  | 0.0  | 0.0  | 0.0  | 1.67 |
| 22.11 | 16 | -    | -    | -    | 51.52 | 24.65 | 11.00 | 10.25 | 2.49 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 25.16 | 18 | -    | -    | -    | 61.33 | 20.33 | 5.33  | 10.67 | 1.33 | 0.0  | 0.0  | 0.33 | 0.0  | 0.67 |
| 28.21 | 20 | -    | -    | -    | 54.17 | 23.21 | 9.23  | 10.12 | 3.27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 31.26 | 22 | -    | -    | -    | 54.00 | 28.00 | 6.33  | 8.67  | 1.33 | 0.0  | 0.0  | 0.0  | 0.0  | 1.67 |
| 34.31 | 24 | -    | -    | -    | 57.29 | 16.88 | 8.44  | 13.04 | 2.3  | 0.0  | 0.0  | 0.51 | 0.51 | 1.02 |
| 37.36 | 26 | -    | -    | -    | 58.33 | 7.00  | 20.67 | 13.67 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 |
| 38.89 | 27 | -    | -    | -    | 59.00 | 6.49  | 17.99 | 13.57 | 1.18 | 0.0  | 0.0  | 0.28 | 0.0  | 1.47 |
| 41.94 | 29 | -    | -    | -    | 67.33 | 7.00  | 6.00  | 16.33 | 1.33 | 0.0  | 0.0  | 0.0  | 0.0  | 2.00 |
| 43.46 | 30 | -    | -    | -    | 64.06 | 6.25  | 4.69  | 19.69 | 1.56 | 0.0  | 0.0  | 0.31 | 1.56 | 1.88 |
| 44.99 | 31 | -    | -    | -    | 66.67 | 7.67  | 5.33  | 16.67 | 1.00 | 0.0  | 0.0  | 0.0  | 0.0  | 2.67 |
| 46.99 | 32 | -    | -    | -    | 62.33 | 6.67  | 8.67  | 20.33 | 0.0  | 0.0  | 0.0  | 1.00 | 0.0  | 1.00 |
| 48.04 | 33 | -    | -    | -    | 64.67 | 6.67  | 8.00  | 19.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.33 |

APPENDIX 2.—Continued on following page.

## APPENDIX 2.—Continued.

## CORE S66

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU  | PYRT  | GYP  | AGG   | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|------|-------|-------|------|-------|-------|------|
| 0.00  | 1  | 14.69 | 63.26 | 22.06 | 58.03 | 6.56  | 0.98 | 9.51  | 0.0   | 0.0  | 3.28  | 20.98 | 0.0  |
| 0.61  | 2  | 16.11 | 77.92 | 5.97  | 84.54 | 3.95  | 1.97 | 0.66  | 0.0   | 2.30 | 1.64  | 1.32  | 0.0  |
| 1.22  | 3  | 3.01  | 69.59 | 27.40 | 87.30 | 2.28  | 0.65 | 1.95  | 0.0   | 0.0  | 6.84  | 0.0   | 0.0  |
| 1.83  | 4  | 1.90  | 41.32 | 56.78 | 66.67 | 3.24  | 2.59 | 1.29  | 0.0   | 1.29 | 21.68 | 0.97  | 0.32 |
| 2.75  | 5  | 0.36  | 21.32 | 78.33 | 79.87 | 1.62  | 1.62 | 4.87  | 0.0   | 0.0  | 7.47  | 2.27  | 0.0  |
| 3.05  | 21 | 0.09  | 85.99 | 13.93 | 59.24 | 1.27  | 0.0  | 0.0   | 0.0   | 0.0  | 10.19 | 29.3  | 0.0  |
| 3.95  | 6  | 1.15  | 43.84 | 55.01 | 55.66 | 0.97  | 3.56 | 2.59  | 36.89 | 0.0  | 0.32  | 0.0   | 0.0  |
| 4.42  | 22 | 0.70  | 77.22 | 22.07 | 68.62 | 4.0   | 1.85 | 0.0   | 24.31 | 0.92 | 0.0   | 0.31  | 0.0  |
| 5.50  | 7  | 0.53  | 31.10 | 68.37 | 19.94 | 0.62  | 0.31 | 0.0   | 42.99 | 0.0  | 28.35 | 5.61  | 0.0  |
| 7.0   | 8  | 38.00 | 44.42 | 17.59 | 76.95 | 11.69 | 0.97 | 3.25  | 2.27  | 0.0  | 1.62  | 2.92  | 0.0  |
| 7.30  | 9  | --    | --    | --    | 76.71 | 6.83  | 3.42 | 6.52  | 4.66  | 0.31 | 0.0   | 0.0   | 0.0  |
| 8.24  | 23 | 8.10  | 76.00 | 15.90 | 2.56  | 0.0   | 0.64 | 0.0   | 0.0   | 0.64 | 0.64  | 95.51 | 0.0  |
| 8.69  | 18 | 1.50  | 38.75 | 59.75 | 9.87  | 0.0   | 0.0  | 0.0   | 0.99  | 0.0  | 0.0   | 89.14 | 0.0  |
| 9.5   | 10 | 0.38  | 22.53 | 77.09 | 6.58  | 0.0   | 0.0  | 0.66  | 1.97  | 0.0  | 0.0   | 88.81 | 0.0  |
| 9.91  | 24 | 9.91  | 71.26 | 18.83 | 52.79 | 0.66  | 0.66 | 0.0   | 0.0   | 0.0  | 0.98  | 44.92 | 0.0  |
| 11.0  | 11 | 0.42  | 18.43 | 81.16 | 26.73 | 1.32  | 0.99 | 1.32  | 6.93  | 0.0  | 0.0   | 61.39 | 0.0  |
| 11.59 | 19 | 16.55 | 71.74 | 11.72 | 0.99  | 0.0   | 0.66 | 0.0   | 0.99  | 0.0  | 0.99  | 96.38 | 0.0  |
| 12.5  | 12 | 22.07 | 39.30 | 38.62 | 1.00  | 0.0   | 0.0  | 0.33  | 0.0   | 0.0  | 0.0   | 97.33 | 0.0  |
| 13.57 | 25 | 6.26  | 72.47 | 21.27 | 3.85  | 0.0   | 0.0  | 0.0   | 3.21  | 0.0  | 0.32  | 92.63 | 0.0  |
| 14.0  | 13 | 5.79  | 41.26 | 52.95 | 4.32  | 0.0   | 0.0  | 0.0   | 0.66  | 0.0  | 0.0   | 93.02 | 0.0  |
| 14.18 | 26 | 62.75 | 31.24 | 6.01  | 90.03 | 7.40  | 0.64 | 0.32  | 1.29  | 0.32 | 0.0   | 0.0   | 0.0  |
| 14.64 | 20 | 3.33  | 52.81 | 43.86 | 71.29 | 1.65  | 0.66 | 0.0   | 0.0   | 0.0  | 0.0   | 26.40 | 0.0  |
| 15.6  | 14 | 74.28 | 17.75 | 7.97  | 77.70 | 12.79 | 4.26 | 3.93  | 0.0   | 0.0  | 0.0   | 0.66  | 0.0  |
| 16.32 | 15 | --    | --    | --    | 75.91 | 7.26  | 4.29 | 11.55 | 0.0   | 0.0  | 0.0   | 0.99  | 0.0  |
| 17.84 | 16 | --    | --    | --    | 79.68 | 10.32 | 1.94 | 6.77  | 0.0   | 0.0  | 0.0   | 1.29  | 0.0  |
| 19.37 | 17 | --    | --    | --    | 71.29 | 6.77  | 6.77 | 12.26 | 0.32  | 0.0  | 0.0   | 1.29  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S66

| DEPTH | NO | SHLO | OSTR | SPNG | OTH  | CARBON-14   |
|-------|----|------|------|------|------|-------------|
| 0.00  | 1  | 0.0  | 0.0  | 0.0  | 0.66 |             |
| 0.61  | 2  | 0.0  | 0.33 | 0.0  | 3.29 |             |
| 1.22  | 3  | 0.0  | 0.0  | 0.0  | 0.98 |             |
| 1.83  | 4  | 0.0  | 0.32 | 0.0  | 1.62 |             |
| 2.75  | 5  | 0.0  | 0.0  | 0.0  | 2.27 |             |
| 3.05  | 21 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 3.95  | 6  | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 4.42  | 22 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 5.50  | 7  | 0.0  | 0.0  | 0.0  | 2.18 |             |
| 7.0   | 8  | 0.0  | 0.0  | 0.0  | 0.32 | 4020+/- 100 |
| 7.30  | 9  | 0.0  | 0.0  | 0.0  | 1.55 |             |
| 8.24  | 23 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 8.69  | 18 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 9.5   | 10 | 0.33 | 0.0  | 1.64 | 0.0  | 3950+/- 70  |
| 9.91  | 24 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 11.0  | 11 | 0.33 | 0.0  | 0.0  | 0.99 |             |
| 11.59 | 19 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 12.5  | 12 | 0.33 | 0.0  | 0.66 | 0.0  | 5480+/- 80  |
| 13.57 | 25 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 14.0  | 13 | 1.33 | 0.0  | 0.66 | 0.0  |             |
| 14.18 | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 7230+/- 70  |
| 14.64 | 20 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 15.6  | 14 | 0.0  | 0.0  | 0.0  | 0.66 |             |
| 16.32 | 15 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 17.84 | 16 | 0.0  | 0.0  | 0.0  | 0.0  |             |
| 19.37 | 17 | 0.0  | 0.0  | 0.0  | 1.29 |             |



## APPENDIX 2.—Continued.

## CORE S67

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | PYRT | GYP  | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 0.0   | 1  | 46.84 | 34.46 | 18.70 | 93.23 | 4.19  | 0.0  | 1.61 | 0.0  | 0.0  | 0.0  | 0.0  | 0.97 | 0.0  | 0.0  |
| 1.83  | 2  | --    | --    | --    | 95.83 | 1.60  | 0.0  | 1.28 | 0.96 | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  |
| 3.36  | 3  | --    | --    | --    | 96.44 | 1.62  | 0.32 | 0.97 | 0.0  | 0.0  | 0.65 | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.27  | 13 | 15.79 | 34.57 | 49.64 | 95.11 | 3.58  | 0.0  | 0.0  | 0.0  | 0.98 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.64  | 4  | 77.29 | 15.05 | 7.66  | 92.75 | 3.72  | 0.31 | 1.86 | 1.55 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.41  | 5  | --    | --    | --    | 92.13 | 5.57  | 0.0  | 2.30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.93  | 6  | --    | --    | --    | 92.38 | 5.30  | 0.0  | 1.66 | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  |
| 9.38  | 7  | --    | --    | --    | 90.00 | 9.67  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10.83 | 8  | --    | --    | --    | 93.00 | 3.67  | 0.0  | 3.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12.35 | 9  | --    | --    | --    | 91.09 | 7.26  | 0.33 | 1.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13.88 | 10 | --    | --    | --    | 79.14 | 16.56 | 0.0  | 3.64 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 16.16 | 11 | --    | --    | --    | 86.38 | 7.64  | 0.0  | 4.98 | 0.0  | 0.0  | 0.0  | 0.33 | 0.33 | 0.0  | 0.0  |
| 18.75 | 12 | --    | --    | --    | 90.73 | 7.95  | 0.33 | 0.66 | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

| CORE S67 |    | CARBON-14 |      |      |      |      |      |      |      |      |       |      |
|----------|----|-----------|------|------|------|------|------|------|------|------|-------|------|
| DEPTH    | NO | GSHW      | GSHF | PSHW | PSHF | SHLO | OSTR | SPNG | ECHN | DIAT | RADIO | OTH  |
| 0.0      | 1  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 1.83     | 2  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 3.36     | 3  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 4.27     | 13 | 0.0       | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 5.64     | 4  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 6.41     | 5  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 7.93     | 6  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 9.38     | 7  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 10.83    | 8  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 12.35    | 9  | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 13.88    | 10 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.66 |
| 16.16    | 11 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.33 |
| 18.75    | 12 | 0.0       | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |

11890+/-380

## APPENDIX 2.—Continued.

## CORE S68

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU  | PYRT | GYP  | AGG  | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|
| 0.0   | 1  | 98.14 | 0.37  | 1.49  | 75.32 | 12.66 | 0.65  | 8.12  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 1.22  | 2  | --    | --    | --    | 91.91 | 5.18  | 0.0   | 0.97  | 1.62 | 0.0  | 0.32 | 0.0   | 0.0  |
| 1.83  | 3  | --    | --    | --    | 85.90 | 10.49 | 0.0   | 0.98  | 1.31 | 0.0  | 0.0  | 0.0   | 0.33 |
| 3.05  | 4  | 27.11 | 52.64 | 20.25 | 48.36 | 10.86 | 22.70 | 16.12 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 3.96  | 5  | 23.02 | 57.64 | 19.35 | 52.98 | 4.39  | 12.85 | 11.60 | 0.31 | 0.0  | 0.0  | 13.79 | 0.31 |
| 5.19  | 34 | --    | --    | --    | 82.87 | 5.92  | 3.12  | 1.25  | 0.31 | 0.62 | 0.0  | 4.98  | 0.0  |
| 5.49  | 6  | 16.75 | 58.49 | 24.77 | 47.17 | 1.26  | 18.24 | 16.04 | 0.31 | 0.0  | 0.0  | 13.21 | 1.89 |
| 6.56  | 35 | --    | --    | --    | 39.38 | 0.0   | 1.25  | 6.25  | 0.0  | 0.0  | 1.56 | 20.31 | 5.94 |
| 7.01  | 7  | 37.92 | 29.69 | 32.39 | 8.22  | 0.66  | 2.63  | 2.63  | 0.0  | 0.0  | 0.0  | 82.23 | 0.0  |
| 7.32  | 8  | 34.76 | 46.89 | 18.34 | 53.72 | 0.97  | 22.33 | 12.62 | 0.0  | 0.0  | 0.0  | 10.36 | 0.0  |
| 7.93  | 9  | --    | --    | --    | 90.88 | 4.89  | 0.33  | 2.28  | 0.65 | 0.0  | 0.0  | 0.0   | 0.33 |
| 8.54  | 36 | --    | --    | --    | 89.71 | 5.14  | 2.89  | 0.0   | 0.0  | 0.64 | 0.64 | 0.96  | 0.0  |
| 10.06 | 10 | 5.21  | 55.30 | 39.49 | 45.57 | 2.53  | 22.78 | 11.08 | 0.0  | 0.0  | 0.0  | 13.30 | 0.63 |
| 10.37 | 37 | --    | --    | --    | 65.29 | 1.59  | 7.96  | 0.0   | 0.0  | 0.64 | 6.37 | 18.51 | 0.0  |
| 11.59 | 11 | 18.57 | 39.20 | 42.23 | 39.37 | 1.74  | 1.74  | 0.35  | 0.70 | 0.0  | 0.0  | 33.45 | 0.0  |
| 11.74 | 38 | --    | --    | --    | 9.09  | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.29 | 73.31 | 0.0  |
| 12.67 | 39 | --    | --    | --    | 8.55  | 0.33  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 85.53 | 0.0  |
| 13.72 | 12 | 2.82  | 57.70 | 39.48 | 34.70 | 1.58  | 7.26  | 1.89  | 0.0  | 0.0  | 0.0  | 49.21 | 0.0  |
| 14.49 | 13 | 69.33 | 17.99 | 12.68 | 39.55 | 1.93  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 45.98 | 0.0  |
| 14.87 | 14 | --    | --    | --    | 91.28 | 4.98  | 0.0   | 2.18  | 0.0  | 0.0  | 0.0  | 0.93  | 0.0  |
| 16.01 | 15 | --    | --    | --    | 91.42 | 3.63  | 0.0   | 1.98  | 1.98 | 0.0  | 0.0  | 0.33  | 0.0  |
| 17.54 | 16 | --    | --    | --    | 91.03 | 4.98  | 0.0   | 2.33  | 1.00 | 0.0  | 0.0  | 0.0   | 0.33 |
| 19.06 | 17 | --    | --    | --    | 88.56 | 5.88  | 0.0   | 2.94  | 1.31 | 0.0  | 0.0  | 0.98  | 0.0  |
| 20.59 | 18 | --    | --    | --    | 88.49 | 7.24  | 0.0   | 2.63  | 0.99 | 0.0  | 0.0  | 0.33  | 0.0  |
| 22.11 | 19 | --    | --    | --    | 85.76 | 9.06  | 0.65  | 3.24  | 0.65 | 0.0  | 0.0  | 0.32  | 0.0  |
| 23.64 | 20 | --    | --    | --    | 87.42 | 7.86  | 0.0   | 2.83  | 1.89 | 0.0  | 0.0  | 0.0   | 0.0  |
| 25.16 | 21 | --    | --    | --    | 90.54 | 3.79  | 0.0   | 3.79  | 0.95 | 0.0  | 0.0  | 0.63  | 0.0  |
| 28.21 | 23 | --    | --    | --    | 92.03 | 5.32  | 0.33  | 2.33  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 31.26 | 25 | --    | --    | --    | 92.33 | 4.00  | 0.0   | 3.00  | 0.67 | 0.0  | 0.0  | 0.0   | 0.0  |







**CORE S68**

[illegible]

## APPENDIX 2.—Continued.

## CORE S69

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | PYRT | GYP  | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|------|------|------|------|-------|------|
| 0.0   | 1  | 7.29  | 35.10 | 57.61 | 57.61 | 10.68 | 0.97 | 3.24 | 0.0  | 0.0  | 16.18 | 0.65 |
| 1.22  | 2  | 4.30  | 29.55 | 66.15 | 70.57 | 2.53  | 5.70 | 1.90 | 0.0  | 0.0  | 10.76 | 0.32 |
| 2.75  | 3  | 1.84  | 22.25 | 75.91 | 79.14 | 7.62  | 3.31 | 1.99 | 0.0  | 0.99 | 2.32  | 0.0  |
| 3.20  | 16 | 26.61 | 60.53 | 12.86 | 96.05 | 3.29  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0   | 0.0  |
| 4.12  | 4  | 70.72 | 25.00 | 4.29  | 96.36 | 3.31  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0   | 0.0  |
| 4.88  | 5  | --    | --    | --    | 94.72 | 3.30  | 0.0  | 0.66 | 0.0  | 0.0  | 0.66  | 0.0  |
| 5.87  | 6  | --    | --    | --    | 91.18 | 5.56  | 0.0  | 1.63 | 0.65 | 0.0  | 0.0   | 0.0  |
| 6.86  | 7  | --    | --    | --    | 91.75 | 6.60  | 0.0  | 0.99 | 0.0  | 0.0  | 0.0   | 0.0  |
| 7.63  | 17 | 43.42 | 50.76 | 5.82  | 93.75 | 5.94  | 0.31 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  |
| 8.69  | 8  | 12.36 | 47.68 | 39.97 | 90.03 | 4.61  | 1.64 | 2.30 | 0.0  | 0.0  | 0.66  | 0.0  |
| 9.30  | 18 | 4.36  | 85.38 | 10.28 | 69.51 | 2.84  | 0.0  | 0.26 | 0.0  | 1.03 | 26.36 | 0.0  |
| 10.22 | 9  | 2.16  | 18.14 | 79.69 | 66.99 | 2.91  | 0.0  | 0.65 | 0.0  | 1.62 | 27.51 | 0.0  |
| 10.82 | 19 | 0.81  | 89.95 | 9.24  | 92.31 | 1.99  | 0.57 | 0.0  | 0.0  | 2.85 | 2.28  | 0.0  |
| 11.74 | 10 | 12.41 | 32.14 | 55.45 | 80.49 | 11.69 | 2.93 | 2.27 | 0.0  | 1.30 | 0.33  | 0.0  |
| 12.66 | 20 | 31.29 | 65.76 | 2.95  | 90.88 | 4.89  | 3.26 | 0.0  | 0.0  | 0.98 | 0.0   | 0.0  |
| 13.11 | 11 | 63.06 | 17.40 | 19.54 | 95.15 | 1.94  | 0.0  | 2.91 | 0.0  | 0.0  | 0.0   | 0.0  |
| 13.88 | 12 | --    | --    | --    | 86.27 | 10.13 | 0.65 | 2.94 | 0.0  | 0.0  | 0.0   | 0.0  |
| 15.40 | 13 | --    | --    | --    | 89.17 | 6.05  | 0.95 | 3.82 | 0.0  | 0.0  | 0.0   | 0.0  |
| 16.93 | 14 | --    | --    | --    | 87.49 | 6.25  | 0.99 | 4.28 | 0.0  | 0.0  | 0.0   | 0.0  |
| 18.76 | 15 | --    | --    | --    | 92.39 | 3.97  | 0.66 | 2.32 | 0.0  | 0.0  | 0.33  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S69

| DEPTH | NO | GSHW | GSHF | PSHF | SHLO | OSTR | SPNG | CARBON-14     |
|-------|----|------|------|------|------|------|------|---------------|
| 0.0   | 1  | 1.62 | 0.32 | 0.97 | 2.27 | 6.15 | 0.0  |               |
| 1.22  | 2  | 4.11 | 0.0  | 0.0  | 3.15 | 1.28 | 0.0  |               |
| 2.75  | 3  | 1.66 | 0.0  | 0.0  | 0.99 | 1.99 | 0.0  |               |
| 3.20  | 16 | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 4410 +/- 80   |
| 4.12  | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 4.88  | 5  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  |               |
| 5.87  | 6  | 0.0  | 0.0  | 0.0  | 0.98 | 0.0  | 0.0  |               |
| 6.86  | 7  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  |               |
| 7.63  | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 23670 +/- 370 |
| 8.69  | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  |               |
| 9.30  | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 10.22 | 9  | 0.32 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 10.82 | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 11.74 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.99 |               |
| 12.66 | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35260 +/- 610 |
| 13.11 | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 13.88 | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 15.40 | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |
| 16.93 | 14 | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  |               |
| 18.76 | 15 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |               |



## APPENDIX 2.—Continued.

## CORE S70

| DEPTH | NO | SHLO | SPNG | DIAT | OTH  | CARBON-14  |
|-------|----|------|------|------|------|------------|
| 0.0   | 1  | 0.0  | 0.32 | 0.0  | 0.64 |            |
| 1.07  | 2  | 0.0  | 0.0  | 0.0  | 2.61 |            |
| 1.83  | 15 | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 2.59  | 3  | 0.0  | 0.30 | 0.0  | 1.52 | 3220+/-120 |
| 3.20  | 16 | 0.96 | 0.0  | 0.32 | 0.0  |            |
| 4.12  | 4  | 0.0  | 0.0  | 0.0  | 1.32 | 3690+/-140 |
| 4.88  | 5  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 6.33  | 6  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 7.78  | 7  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 9.30  | 8  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 10.98 | 9  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 12.66 | 10 | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 14.33 | 11 | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 16.01 | 12 | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 17.54 | 13 | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 19.06 | 14 | 0.0  | 0.0  | 0.0  | 0.0  |            |



## APPENDIX 2.—Continued.

## CORE S71

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU | PYRT | GYP  | AGG   | PLTM  | FORB |
|-------|----|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|------|
| 0.0   | 1  | 28.04 | 47.34 | 24.62 | 59.69 | 22.81 | 1.50  | 2.81 | 0.0  | 0.63 | 0.0   | 7.19  | 4.69 |
| 0.61  | 2  | 23.97 | 51.04 | 24.99 | 55.63 | 18.97 | 9.00  | 6.75 | 0.0  | 3.54 | 0.0   | 2.89  | 2.89 |
| 1.07  | 3  | -     | -     | -     | 54.88 | 36.28 | 0.30  | 1.22 | 0.0  | 0.0  | 0.0   | 0.0   | 7.01 |
| 1.83  | 4  | -     | -     | -     | 51.38 | 36.92 | 1.85  | 1.54 | 0.0  | 0.0  | 0.0   | 0.31  | 6.15 |
| 2.14  | 33 | 14.31 | 76.93 | 8.76  | 84.24 | 4.18  | 3.86  | 0.0  | 0.0  | 0.96 | 0.0   | 3.54  | 0.96 |
| 2.90  | 34 | 4.56  | 85.19 | 10.25 | 23.43 | 0.0   | 45.87 | 0.0  | 0.0  | 0.0  | 2.64  | 28.05 | 0.0  |
| 3.05  | 5  | 2.51  | 58.55 | 38.94 | 44.14 | 16.05 | 7.10  | 0.31 | 0.0  | 2.78 | 0.0   | 23.15 | 3.40 |
| 4.27  | 35 | 3.43  | 86.12 | 10.45 | 52.74 | 1.44  | 18.16 | 0.58 | 0.0  | 1.44 | 2.31  | 19.89 | 0.58 |
| 5.34  | 36 | 18.95 | 68.78 | 12.27 | 62.82 | 0.64  | 0.64  | 0.32 | 0.32 | 0.64 | 1.60  | 3.85  | 8.33 |
| 6.10  | 6  | 14.86 | 35.77 | 49.36 | 74.50 | 10.60 | 1.99  | 1.32 | 0.0  | 3.31 | 0.0   | 5.96  | 0.66 |
| 6.86  | 7  | -     | -     | -     | 83.39 | 13.79 | 1.88  | 0.31 | 0.0  | 0.31 | 0.0   | 0.31  | 0.0  |
| 8.39  | 8  | -     | -     | -     | 83.12 | 13.64 | 0.97  | 0.65 | 0.0  | 0.65 | 0.0   | 0.65  | 0.0  |
| 9.91  | 9  | -     | -     | -     | 69.87 | 20.51 | 3.85  | 2.56 | 0.0  | 0.96 | 0.0   | 2.24  | 0.0  |
| 11.44 | 10 | -     | -     | -     | 66.02 | 14.24 | 9.39  | 5.83 | 0.0  | 0.0  | 0.0   | 2.91  | 0.97 |
| 12.20 | 37 | 28.47 | 58.74 | 12.79 | 78.15 | 4.30  | 0.66  | 0.33 | 0.33 | 0.0  | 0.0   | 15.23 | 0.66 |
| 12.51 | 38 | 4.53  | 76.33 | 19.14 | 44.85 | 0.30  | 0.91  | 0.0  | 0.61 | 0.30 | 0.61  | 52.13 | 0.0  |
| 12.96 | 11 | 33.25 | 25.79 | 40.96 | 80.00 | 6.89  | 0.98  | 0.98 | 0.0  | 0.98 | 0.0   | 10.16 | 0.0  |
| 13.39 | 12 | -     | -     | -     | 86.23 | 12.13 | 0.0   | 0.66 | 0.0  | 0.33 | 0.0   | 0.0   | 0.33 |
| 14.49 | 13 | -     | -     | -     | 87.13 | 10.23 | 0.66  | 0.99 | 0.0  | 0.66 | 0.0   | 0.0   | 0.0  |
| 16.01 | 14 | -     | -     | -     | 88.16 | 11.18 | 0.0   | 0.66 | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  |
| 17.54 | 15 | -     | -     | -     | 78.26 | 13.35 | 0.62  | 0.62 | 0.0  | 0.93 | 0.62  | 2.48  | 0.0  |
| 19.06 | 16 | -     | -     | -     | 70.20 | 8.61  | 0.0   | 0.33 | 0.0  | 0.33 | 18.21 | 1.66  | 0.0  |
| 20.59 | 17 | -     | -     | -     | 81.46 | 6.29  | 0.0   | 0.0  | 0.0  | 0.0  | 11.26 | 0.66  | 0.0  |
| 22.11 | 18 | -     | -     | -     | 86.54 | 5.13  | 0.0   | 0.0  | 0.0  | 0.0  | 6.73  | 0.64  | 0.64 |
| 23.64 | 19 | -     | -     | -     | 86.82 | 7.07  | 0.0   | 0.0  | 0.0  | 0.32 | 4.82  | 0.32  | 0.0  |
| 25.16 | 20 | -     | -     | -     | 86.60 | 7.19  | 0.0   | 0.0  | 0.0  | 0.0  | 5.56  | 0.0   | 0.0  |
| 26.69 | 21 | -     | -     | -     | 86.23 | 5.90  | 0.0   | 0.0  | 0.0  | 0.0  | 7.21  | 0.0   | 0.0  |
| 28.21 | 22 | -     | -     | -     | 85.11 | 7.62  | 0.0   | 0.0  | 0.0  | 0.0  | 8.61  | 0.0   | 0.0  |
| 29.74 | 23 | -     | -     | -     | 85.53 | 7.57  | 0.0   | 0.66 | 0.0  | 0.66 | 3.29  | 0.0   | 0.66 |
| 31.26 | 24 | -     | -     | -     | 78.50 | 13.71 | 0.0   | 0.0  | 0.0  | 0.62 | 6.23  | 0.0   | 0.0  |
| 32.79 | 25 | -     | -     | -     | 85.89 | 10.43 | 0.31  | 0.31 | 0.0  | 0.0  | 2.15  | 0.0   | 0.0  |
| 34.31 | 26 | -     | -     | -     | 80.84 | 11.04 | 0.0   | 2.27 | 0.0  | 0.65 | 4.22  | 0.0   | 0.0  |
| 35.84 | 27 | -     | -     | -     | 82.68 | 9.15  | 0.0   | 0.33 | 0.0  | 0.0  | 6.86  | 0.33  | 0.0  |

**CORE S71**

| DEPTH | NO | SAND | SILT | CLAY | LT    | HVY   | MICA | GLAU | PYRT | GYP  | AGG  | PLTM | FORB |
|-------|----|------|------|------|-------|-------|------|------|------|------|------|------|------|
| 37.36 | 28 | -    | -    | -    | 84.74 | 8.44  | 0.32 | 0.32 | 0.0  | 0.97 | 3.57 | 0.0  | 0.0  |
| 38.89 | 29 | -    | -    | -    | 80.83 | 10.22 | 0.0  | 0.0  | 0.0  | 0.64 | 6.71 | 0.0  | 0.0  |
| 40.41 | 30 | -    | -    | -    | 88.57 | 5.40  | 0.32 | 0.0  | 0.0  | 0.63 | 3.17 | 0.0  | 0.32 |
| 41.94 | 31 | -    | -    | -    | 81.81 | 9.72  | 0.0  | 0.0  | 0.0  | 0.94 | 4.70 | 1.88 | 0.63 |
| 43.47 | 32 | -    | -    | -    | 80.06 | 13.92 | 0.0  | 0.0  | 0.0  | 0.63 | 3.48 | 0.32 | 0.63 |

## APPENDIX 2.—Continued.

| CORE S71 |    |      |      |      |      |       |      |      |      |             |  | CARBON-14 |
|----------|----|------|------|------|------|-------|------|------|------|-------------|--|-----------|
| DEPTH    | NO | GSHW | GSHF | PSHW | PSHF | SHLO  | OSTR | DIAT | OTH  |             |  |           |
| 0.0      | 1  | 0.0  | 0.0  | 0.0  | 0.31 | 0.62  | 0.0  | 0.0  | 0.63 | 3030 +/-90  |  |           |
| 0.61     | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.32 |             |  |           |
| 1.07     | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.30 |             |  |           |
| 1.83     | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.92 |             |  |           |
| 2.14     | 33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.96  | 1.29 | 0.0  | 0.0  | 4460 +/- 80 |  |           |
| 2.90     | 34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 3.05     | 5  | 0.0  | 0.62 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 2.47 |             |  |           |
| 4.27     | 35 | 0.0  | 0.0  | 0.0  | 0.0  | 2.02  | 0.58 | 0.29 | 0.0  |             |  |           |
| 5.34     | 36 | 0.0  | 0.0  | 0.0  | 0.0  | 20.19 | 0.64 | 0.0  | 0.0  | 6,860 +/-50 |  |           |
| 6.10     | 6  | 0.0  | 0.0  | 0.0  | 1.66 | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 6.86     | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 8.39     | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.32 |             |  |           |
| 9.91     | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 7250 +/-100 |  |           |
| 11.44    | 10 | 0.0  | 0.0  | 0.0  | 0.32 | 0.32  | 0.0  | 0.0  | 0.0  |             |  |           |
| 12.20    | 37 | 0.0  | 0.0  | 0.0  | 0.0  | 0.33  | 0.0  | 0.0  | 0.0  |             |  |           |
| 12.51    | 38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.30  | 0.0  | 0.0  | 0.0  |             |  |           |
| 12.96    | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 13.39    | 12 | 0.0  | 0.0  | 0.0  | 0.33 | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 14.49    | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.33 |             |  |           |
| 16.01    | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 17.54    | 15 | 0.31 | 0.0  | 0.0  | 0.62 | 0.0   | 0.0  | 0.0  | 2.17 |             |  |           |
| 19.06    | 16 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.33 |             |  |           |
| 20.59    | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.33 |             |  |           |
| 22.11    | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.32 |             |  |           |
| 23.64    | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32  | 0.0  | 0.0  | 0.32 |             |  |           |
| 25.16    | 20 | 0.0  | 0.0  | 0.33 | 0.33 | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 26.69    | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.66 |             |  |           |
| 28.21    | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.66 |             |  |           |
| 29.74    | 23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  |             |  |           |
| 31.26    | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.31  | 0.0  | 0.0  | 0.62 |             |  |           |
| 32.79    | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.92 |             |  |           |
| 34.31    | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.97 |             |  |           |
| 35.84    | 27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.65 |             |  |           |

[illegible]





## APPENDIX 2.—Continued.

## CORE S72

| DEPTH | NO | GSHW | GSHF | PSHW | SHLO  | OSTR | SPNG | ECHN | DIAT | OTH  | CARBON-14  |
|-------|----|------|------|------|-------|------|------|------|------|------|------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 2.82 | 2900+/- 70 |
| 1.52  | 2  | 0.32 | 0.0  | 0.0  | 0.32  | 0.0  | 0.0  | 0.0  | 0.0  | 0.97 |            |
| 1.68  | 3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.98 |            |
| 1.98  | 17 | 0.0  | 0.0  | 0.0  | 0.32  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 3.05  | 4  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.99 |            |
| 3.51  | 18 | 0.0  | 0.0  | 0.93 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 4.57  | 5  | 1.41 | 1.76 | 0.0  | 36.27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.35 |            |
| 4.60  | 6  | 2.17 | 0.72 | 0.0  | 33.21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.36 |            |
| 5.19  | 19 | 0.0  | 0.0  | 0.32 | 0.65  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 6.10  | 7  | 0.0  | 0.0  | 0.0  | 0.0   | 0.64 | 1.29 | 0.32 | 1.29 | 0.0  |            |
| 7.62  | 8  | 0.0  | 0.0  | 0.0  | 0.0   | 0.64 | 1.29 | 0.0  | 0.96 | 0.0  | 6420+/- 80 |
| 8.08  | 20 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 8.70  | 21 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 9.15  | 9  | 0.32 | 0.0  | 0.0  | 0.64  | 0.0  | 0.0  | 0.0  | 0.0  | 4.46 |            |
| 9.91  | 10 | 0.32 | 0.32 | 0.0  | 0.64  | 0.64 | 0.0  | 0.0  | 0.0  | 0.64 |            |
| 11.44 | 11 | 0.31 | 0.62 | 0.31 | 1.26  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |            |
| 12.96 | 12 | 0.62 | 0.0  | 0.0  | 0.92  | 0.31 | 0.0  | 0.0  | 0.0  | 1.85 |            |
| 14.19 | 13 | 0.93 | 0.31 | 0.0  | 0.93  | 0.31 | 0.0  | 0.0  | 0.0  | 5.56 |            |
| 16.01 | 14 | 0.32 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 6.65 |            |
| 17.54 | 15 | 0.28 | 0.28 | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 2.51 |            |
| 19.06 | 16 | 0.0  | 0.32 | 0.0  | 0.32  | 0.0  | 0.0  | 0.0  | 0.0  | 5.79 |            |

## APPENDIX 2.—Continued.

## CORE S73

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU | PYRT | GYP  | AGG   | PLTM  | FORB  |
|-------|----|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 0.0   | 1  | 79.76 | 7.92  | 12.32 | 69.08 | 20.39 | 0.0   | 0.0  | 0.0  | 0.0  | 0.66  | 0.0   | 6.58  |
| 1.53  | 2  | 1.22  | 31.40 | 12.32 | 62.38 | 4.62  | 1.65  | 0.0  | 0.0  | 0.0  | 0.99  | 13.20 | 15.18 |
| 1.68  | 32 | 76.79 | 21.14 | 2.07  | 86.34 | 5.90  | 1.86  | 0.31 | 0.0  | 0.0  | 0.0   | 0.31  | 0.93  |
| 2.14  | 33 | 7.58  | 87.50 | 4.91  | 81.25 | 5.94  | 9.38  | 1.25 | 0.0  | 0.94 | 0.63  | 0.31  | 0.0   |
| 2.44  | 34 | 3.31  | 83.14 | 13.55 | 28.30 | 0.0   | 36.48 | 0.0  | 0.0  | 1.57 | 1.57  | 31.13 | 0.94  |
| 2.90  | 35 | 1.52  | 87.50 | 10.98 | 19.58 | 0.59  | 15.73 | 0.0  | 0.0  | 0.0  | 0.0   | 30.86 | 22.55 |
| 3.05  | 3  | 63.08 | 12.93 | 23.99 | 0.94  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 1.26  | 63.84 |
| 3.81  | 4  | --    | --    | --    | 74.45 | 16.40 | 0.32  | 0.32 | 0.0  | 0.32 | 0.0   | 0.32  | 3.15  |
| 5.03  | 36 | 4.35  | 85.91 | 9.74  | 65.25 | 0.98  | 13.11 | 0.66 | 0.33 | 1.31 | 1.31  | 16.07 | 0.33  |
| 5.80  | 37 | 21.98 | 70.88 | 7.14  | 81.55 | 4.46  | 4.17  | 0.60 | 0.0  | 0.60 | 2.98  | 4.76  | 0.30  |
| 6.10  | 5  | 5.51  | 58.84 | 35.65 | 48.11 | 2.20  | 25.47 | 0.0  | 0.0  | 0.94 | 12.26 | 7.86  | 1.57  |
| 6.71  | 38 | 1.08  | 87.11 | 11.81 | 10.32 | 0.0   | 26.77 | 0.0  | 0.65 | 0.0  | 0.0   | 62.26 | 0.0   |
| 7.63  | 6  | 1.09  | 43.54 | 55.38 | 15.32 | 0.0   | 35.14 | 0.0  | 0.0  | 0.60 | 15.62 | 26.43 | 5.71  |
| 7.93  | 39 | 5.30  | 83.44 | 11.26 | 78.13 | 4.06  | 2.81  | 0.31 | 0.0  | 0.94 | 4.38  | 6.56  | 1.25  |
| 8.54  | 40 | 0.14  | 86.50 | 13.36 | 64.35 | 0.95  | 1.26  | 0.0  | 0.95 | 0.95 | 0.95  | 24.29 | 5.68  |
| 9.15  | 7  | 0.66  | 46.96 | 52.38 | 64.51 | 1.54  | 4.32  | 0.0  | 0.0  | 0.0  | 6.48  | 18.21 | 2.78  |
| 9.46  | 41 | 0.71  | 87.35 | 11.95 | 63.64 | 1.52  | 3.94  | 0.61 | 0.61 | 0.30 | 0.91  | 19.09 | 2.73  |
| 10.07 | 42 | 0.39  | 89.52 | 10.10 | 42.09 | 1.58  | 2.53  | 0.0  | 0.32 | 0.0  | 1.27  | 51.26 | 0.95  |
| 10.68 | 8  | 1.23  | 27.88 | 70.89 | 80.38 | 8.86  | 0.63  | 0.0  | 0.0  | 0.0  | 4.75  | 0.32  | 5.06  |
| 10.98 | 43 | 2.95  | 87.09 | 9.96  | 10.92 | 0.86  | 11.78 | 0.0  | 3.16 | 3.74 | 0.0   | 68.39 | 0.57  |
| 11.74 | 44 | 1.61  | 82.59 | 15.80 | 75.25 | 3.96  | 0.0   | 0.0  | 2.31 | 1.98 | 2.31  | 0.99  | 13.20 |
| 12.81 | 9  | 11.65 | 64.07 | 24.28 | 66.34 | 0.65  | 0.0   | 0.0  | 0.0  | 0.0  | 2.61  | 28.43 | 0.65  |
| 12.90 | 45 | 11.65 | 73.95 | 14.39 | 85.89 | 1.25  | 0.31  | 0.0  | 2.82 | 0.94 | 2.82  | 3.45  | 1.25  |
| 13.12 | 10 | 87.01 | 3.69  | 9.30  | 87.66 | 9.74  | 0.0   | 0.0  | 0.0  | 0.0  | 1.95  | 0.0   | 0.0   |
| 13.42 | 11 | --    | --    | --    | 83.92 | 10.61 | 0.64  | 0.0  | 0.0  | 1.29 | 0.96  | 0.0   | 0.96  |
| 11.73 | 46 | 45.57 | 50.41 | 4.02  | 84.84 | 4.19  | 3.23  | 0.0  | 0.32 | 2.58 | 1.29  | 1.30  | 0.32  |
| 14.34 | 47 | 31.34 | 64.85 | 3.81  | 82.53 | 2.11  | 6.93  | 0.0  | 0.0  | 3.31 | 2.11  | 0.0   | 0.0   |
| 15.25 | 12 | 69.80 | 17.48 | 12.72 | 83.96 | 9.75  | 1.57  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   |
| 16.01 | 13 | --    | --    | --    | 81.31 | 12.79 | 0.0   | 0.0  | 0.98 | 0.66 | 0.0   | 0.0   | 1.31  |
| 17.54 | 14 | --    | --    | --    | 86.97 | 8.47  | 0.0   | 0.33 | 0.0  | 0.65 | 0.0   | 0.33  | 1.95  |
| 19.06 | 15 | --    | --    | --    | 89.90 | 6.51  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 2.28  |

## APPENDIX 2.—Continued.

## CORE S73

| DEPTH | NO | SAND | SILT | CLAY | LT    | HVY   | MICA | GLAU | PYRT | GYP  | AGG  | PLTM | FORB |
|-------|----|------|------|------|-------|-------|------|------|------|------|------|------|------|
| 20.59 | 16 | --   | --   | --   | 91.23 | 7.14  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.65 |
| 22.11 | 17 | --   | --   | --   | 88.60 | 8.79  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.98 |
| 23.64 | 18 | --   | --   | --   | 89.07 | 5.14  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 3.86 |
| 25.16 | 19 | --   | --   | --   | 88.10 | 6.75  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.18 |
| 26.38 | 20 | --   | --   | --   | 84.89 | 7.40  | 0.0  | 0.0  | 0.0  | 0.0  | 0.64 | 6.11 | 0.0  |
| 28.21 | 21 | --   | --   | --   | 83.54 | 8.07  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.52 |
| 29.74 | 22 | --   | --   | --   | 84.47 | 6.80  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 6.80 |
| 31.26 | 23 | --   | --   | --   | 85.62 | 4.90  | 0.33 | 0.0  | 0.0  | 0.0  | 1.31 | 5.88 | 0.0  |
| 32.79 | 24 | --   | --   | --   | 89.00 | 6.47  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.56 |
| 34.31 | 25 | --   | --   | --   | 92.43 | 5.92  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.32 |
| 35.84 | 26 | --   | --   | --   | 82.69 | 14.74 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.96 |
| 37.36 | 27 | --   | --   | --   | 91.40 | 3.82  | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 2.55 |
| 38.89 | 28 | --   | --   | --   | 84.97 | 11.11 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.61 |
| 40.41 | 29 | --   | --   | --   | 79.14 | 19.21 | 0.0  | 0.0  | 0.0  | 0.99 | 0.0  | 0.0  | 0.33 |
| 41.94 | 30 | --   | --   | --   | 78.95 | 17.76 | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 1.32 |
| 43.46 | 31 | --   | --   | --   | 85.81 | 11.88 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.32 |

## APPENDIX 2.—Continued.

## CORE S73

| DEPTH | NO | GSHW | GSHF | PSHW | PSHF | SHLO  | OSTR | OTH  | CARBON-14      |
|-------|----|------|------|------|------|-------|------|------|----------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 3.29 |                |
| 1.53  | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 1.98 |                |
| 1.68  | 32 | 0.0  | 0.0  | 0.0  | 0.0  | 4.04  | 0.31 | 0.0  |                |
| 2.14  | 33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.31  | 0.0  | 0.0  |                |
| 2.44  | 34 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |                |
| 2.90  | 35 | 0.0  | 0.0  | 0.0  | 1.19 | 9.50  | 0.0  | 0.0  |                |
| 3.05  | 3  | 3.14 | 0.0  | 0.0  | 0.0  | 19.50 | 9.43 | 1.89 |                |
| 3.81  | 4  | 0.0  | 0.32 | 0.32 | 0.32 | 2.84  | 0.32 | 0.0  |                |
| 5.03  | 36 | 0.0  | 0.0  | 0.0  | 0.0  | 0.66  | 0.0  | 0.0  | 3,990 +/- 90   |
| 5.80  | 37 | 0.0  | 0.0  | 0.0  | 0.0  | 0.60  | 0.0  | 0.0  |                |
| 6.10  | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.63  | 0.0  | 0.94 |                |
| 6.71  | 38 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |                |
| 7.63  | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.90  | 0.30 | 0.0  |                |
| 7.93  | 39 | 0.0  | 0.0  | 0.0  | 0.0  | 1.25  | 0.31 | 0.0  |                |
| 8.54  | 40 | 0.0  | 0.0  | 0.0  | 0.0  | 0.63  | 0.0  | 0.0  |                |
| 9.15  | 7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.62  | 0.0  | 1.54 |                |
| 9.46  | 41 | 0.0  | 0.0  | 0.0  | 0.0  | 6.06  | 0.61 | 0.0  |                |
| 10.07 | 42 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |                |
| 10.68 | 8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |                |
| 10.98 | 43 | 0.0  | 0.0  | 0.0  | 0.0  | 0.29  | 0.29 | 0.0  |                |
| 11.74 | 44 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |                |
| 12.81 | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.33  | 0.33 | 0.65 | 7,590 +/- 90   |
| 12.90 | 45 | 0.0  | 0.0  | 0.0  | 0.0  | 1.25  | 0.0  | 0.0  |                |
| 13.12 | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.65 |                |
| 13.42 | 11 | 0.32 | 0.0  | 0.0  | 0.0  | 0.64  | 0.64 | 0.0  |                |
| 11.73 | 46 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 1.94 | 12,760 +/- 110 |
| 14.34 | 47 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 3.01 |                |
| 15.25 | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  |                |
| 16.01 | 13 | 0.33 | 0.33 | 0.0  | 0.0  | 1.31  | 0.33 | 0.66 |                |
| 17.54 | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.98  | 0.0  | 0.33 |                |
| 19.06 | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 1.30  | 0.0  | 0.0  |                |

## APPENDIX 2.—Continued.

## CORE S73

| DEPTH | NO | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | OTH  | CARBON-14 |
|-------|----|------|------|------|------|------|------|------|-----------|
| 20.59 | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.65 |           |
| 22.11 | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 1.30 | 0.0  | 0.99 |           |
| 23.64 | 18 | 0.0  | 0.0  | 0.0  | 0.32 | 0.64 | 0.0  | 0.64 |           |
| 25.16 | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.96 | 0.0  | 0.0  |           |
| 26.38 | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.64 |           |
| 28.21 | 21 | 0.0  | 0.0  | 0.31 | 0.0  | 0.62 | 0.0  | 0.93 |           |
| 29.74 | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 1.29 | 0.32 | 0.32 |           |
| 31.26 | 23 | 0.0  | 0.0  | 0.0  | 0.0  | 0.65 | 0.33 | 0.98 |           |
| 32.79 | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.65 |           |
| 34.31 | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  |           |
| 35.84 | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.60 |           |
| 37.36 | 27 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 1.59 |           |
| 38.89 | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.65 |           |
| 40.41 | 29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  |           |
| 41.94 | 30 | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.66 |           |
| 43.46 | 31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  |           |



## APPENDIX 2.—Continued.

## CORE S74

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA  | GLAU | PYRT | GYP  | AGG   | PLTM  | FORB  |
|-------|----|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 0.0   | 1  | 29.81 | 47.76 | 22.43 | 31.72 | 0.0   | 11.65 | 0.0  | 0.0  | 3.56 | 42.00 | 7.44  | 1.29  |
| 1.37  | 2  | --    | --    | --    | 16.93 | 0.64  | 1.60  | 0.0  | 0.0  | 0.0  | 3.51  | 0.64  | 20.77 |
| 2.75  | 14 | 75.30 | 22.02 | 2.68  | 81.07 | 4.42  | 0.95  | 0.32 | 0.0  | 0.0  | 0.0   | 0.63  | 0.0   |
| 3.97  | 3  | 39.06 | 40.69 | 20.25 | 50.00 | 2.56  | 7.69  | 0.0  | 0.0  | 3.85 | 30.77 | 4.81  | 0.0   |
| 5.03  | 15 | 29.60 | 60.87 | 9.52  | 88.68 | 4.40  | 2.52  | 1.57 | 0.63 | 0.0  | 1.26  | 0.31  | 0.31  |
| 5.49  | 4  | 4.74  | 72.75 | 22.51 | 27.36 | 0.0   | 13.52 | 0.0  | 0.0  | 4.40 | 33.96 | 19.81 | 0.0   |
| 5.80  | 16 | 4.76  | 83.70 | 11.54 | 86.27 | 1.79  | 2.99  | 0.60 | 0.0  | 0.0  | 0.30  | 3.28  | 1.19  |
| 7.02  | 5  | 2.58  | 58.23 | 39.20 | 32.21 | 0.0   | 10.36 | 0.0  | 0.0  | 1.68 | 29.13 | 17.65 | 5.32  |
| 7.32  | 17 | 14.35 | 77.37 | 8.27  | 89.10 | 2.49  | 2.49  | 0.62 | 0.0  | 0.62 | 0.62  | 1.56  | 1.25  |
| 8.54  | 6  | 2.77  | 49.68 | 47.55 | 84.81 | 5.70  | 0.0   | 0.0  | 0.0  | 0.0  | 8.86  | 0.0   | 0.0   |
| 8.70  | 18 | 77.37 | 19.34 | 3.30  | 89.10 | 7.08  | 0.27  | 0.0  | 0.27 | 0.54 | 0.0   | 0.0   | 1.36  |
| 9.15  | 7  | 72.74 | 18.87 | 8.38  | 94.37 | 3.97  | 0.0   | 0.0  | 0.0  | 0.0  | 0.66  | 0.0   | 0.0   |
| 9.91  | 8  | --    | --    | --    | 0.0   | 81.85 | 2.56  | 0.64 | 0.0  | 0.32 | 12.14 | 0.32  | 0.0   |
| 11.44 | 9  | --    | --    | --    | 0.0   | 76.33 | 5.03  | 2.07 | 0.0  | 2.07 | 10.95 | 1.18  | 0.0   |
| 12.96 | 10 | --    | --    | --    | 0.0   | 82.26 | 4.44  | 2.82 | 0.0  | 5.65 | 2.82  | 0.40  | 0.0   |
| 14.49 | 11 | --    | --    | --    | 0.0   | 83.39 | 4.98  | 0.66 | 0.0  | 2.33 | 5.98  | 0.0   | 0.0   |
| 16.01 | 12 | --    | --    | --    | 0.0   | 84.87 | 4.93  | 0.66 | 0.0  | 0.0  | 6.25  | 0.0   | 0.0   |
| 17.54 | 13 | --    | --    | --    | 0.0   | 86.69 | 3.90  | 0.0  | 0.0  | 1.95 | 5.84  | 0.0   | 0.0   |

## APPENDIX 2.—Continued.

## CORE S74

| DEPTH | NO | GSHW | PSHF | SHLO  | OSTR | SPNG | OTH  | CARBON-14   |
|-------|----|------|------|-------|------|------|------|-------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.62 |             |
| 1.37  | 2  | 3.19 | 1.92 | 42.81 | 7.99 | 0.0  | 0.0  |             |
| 2.75  | 14 | 0.0  | 0.0  | 9.15  | 0.95 | 0.0  | 0.0  |             |
| 3.97  | 3  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.32 | 6290 +/-140 |
| 5.03  | 15 | 0.0  | 0.0  | 0.31  | 0.0  | 0.0  | 0.0  |             |
| 5.49  | 4  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.94 |             |
| 5.80  | 16 | 0.0  | 0.0  | 0.30  | 1.49 | 1.79 | 0.0  |             |
| 7.02  | 5  | 0.0  | 0.0  | 2.52  | 0.56 | 0.0  | 0.56 |             |
| 7.32  | 17 | 0.0  | 0.0  | 1.25  | 0.0  | 0.0  | 0.0  |             |
| 8.54  | 6  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.63 |             |
| 8.70  | 18 | 0.0  | 0.0  | 1.09  | 0.27 | 0.0  | 0.0  |             |
| 9.15  | 7  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.99 | 6420 +/- 90 |
| 9.91  | 8  | 0.0  | 0.0  | 0.32  | 0.64 | 0.0  | 1.92 |             |
| 11.44 | 9  | 0.30 | 0.0  | 0.89  | 0.0  | 0.0  | 1.18 |             |
| 12.96 | 10 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.61 |             |
| 14.49 | 11 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 2.66 |             |
| 16.01 | 12 | 0.0  | 0.0  | 0.33  | 0.0  | 0.0  | 2.96 |             |
| 17.54 | 13 | 0.0  | 0.0  | 0.65  | 0.0  | 0.0  | 0.97 |             |

## APPENDIX 2.—Continued.

## CORE S75

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | PYRT  | GYP  | AGG   | PLTM  | FORB  |
|-------|----|-------|-------|-------|-------|-------|------|------|-------|------|-------|-------|-------|
| 0.0   | 1  | 51.90 | 38.42 | 9.68  | 29.17 | 0.0   | 3.21 | 0.0  | 0.0   | 3.85 | 56.09 | 5.45  | 0.96  |
| 0.15  | 2  | --    | --    | --    | 57.32 | 18.69 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 1.87  | 9.97  |
| 0.92  | 3  | 38.52 | 32.20 | 29.28 | 55.23 | 7.53  | 6.69 | 0.0  | 0.0   | 6.69 | 2.93  | 16.32 | 2.93  |
| 1.53  | 4  | 38.22 | 36.80 | 24.98 | 50.00 | 5.59  | 2.30 | 0.0  | 0.0   | 2.63 | 10.53 | 22.70 | 2.96  |
| 2.14  | 21 | 45.85 | 40.37 | 13.79 | 85.95 | 4.58  | 2.29 | 0.65 | 0.0   | 0.65 | 2.94  | 0.65  | 0.98  |
| 2.89  | 22 | 78.80 | 18.84 | 2.37  | 89.87 | 6.21  | 0.0  | 0.98 | 0.0   | 1.96 | 0.0   | 0.0   | 0.65  |
| 2.60  | 23 | 77.50 | 18.24 | 4.26  | 61.40 | 3.51  | 0.29 | 0.0  | 0.0   | 0.58 | 1.46  | 1.46  | 5.85  |
| 3.36  | 5  | 84.50 | 7.37  | 8.13  | 69.45 | 11.58 | 3.22 | 0.0  | 0.0   | 5.47 | 9.00  | 1.29  | 0.0   |
| 3.97  | 6  | --    | --    | --    | 78.34 | 7.32  | 0.96 | 0.0  | 0.0   | 2.55 | 4.46  | 0.96  | 0.64  |
| 5.34  | 7  | --    | --    | --    | 71.43 | 18.83 | 0.32 | 0.0  | 0.0   | 3.57 | 2.60  | 0.32  | 0.0   |
| 6.56  | 8  | --    | --    | --    | 57.74 | 2.90  | 0.65 | 0.0  | 0.0   | 7.10 | 18.06 | 0.0   | 0.0   |
| 7.63  | 24 | 0.49  | 36.95 | 62.56 | 9.26  | 0.62  | 0.62 | 0.0  | 66.36 | 4.32 | 0.0   | 0.0   | 14.20 |
| 8.54  | 9  | 17.49 | 50.80 | 31.70 | 27.72 | 3.30  | 8.91 | 0.0  | 0.0   | 2.97 | 33.00 | 2.97  | 0.0   |
| 9.00  | 25 | 4.58  | 33.27 | 62.15 | 72.93 | 4.14  | 1.59 | 0.64 | 9.55  | 2.55 | 0.0   | 1.27  | 1.27  |
| 9.46  | 26 | 0.14  | 38.97 | 60.90 | 68.83 | 1.62  | 6.49 | 0.32 | 1.30  | 0.65 | 0.97  | 17.53 | 0.65  |
| 10.07 | 10 | 0.17  | 42.20 | 57.63 | 39.43 | 0.63  | 5.05 | 0.0  | 0.0   | 2.21 | 11.04 | 37.85 | 1.26  |
| 10.68 | 27 | 4.69  | 47.70 | 47.61 | 61.86 | 3.21  | 4.49 | 0.0  | 8.97  | 2.56 | 1.92  | 11.86 | 1.28  |
| 11.59 | 11 | 0.29  | 30.67 | 69.04 | 31.05 | 0.33  | 0.0  | 0.0  | 0.0   | 3.27 | 3.92  | 0.33  | 47.71 |
| 11.90 | 28 | 0.19  | 67.93 | 31.88 | 84.59 | 3.77  | 0.0  | 0.0  | 0.63  | 3.46 | 0.31  | 3.14  | 1.26  |
| 13.12 | 12 | 7.97  | 54.37 | 37.67 | 75.32 | 7.79  | 0.32 | 0.0  | 0.0   | 0.32 | 0.32  | 0.32  | 13.31 |
| 13.26 | 30 | 6.90  | 71.39 | 21.71 | 65.18 | 2.08  | 0.30 | 0.0  | 0.30  | 1.19 | 5.95  | 2.38  | 17.86 |
| 13.42 | 29 | 2.98  | 62.97 | 34.05 | 60.00 | 5.48  | 0.65 | 0.0  | 0.0   | 0.97 | 0.0   | 0.32  | 29.35 |
| 14.34 | 13 | 65.98 | 9.13  | 24.90 | 80.91 | 12.94 | 0.0  | 0.0  | 0.0   | 2.91 | 0.97  | 0.97  | 0.0   |
| 14.79 | 14 | --    | --    | --    | 77.51 | 14.29 | 1.22 | 0.0  | 0.0   | 1.22 | 2.43  | 0.0   | 0.0   |
| 16.01 | 15 | --    | --    | --    | 74.28 | 12.22 | 0.0  | 0.0  | 0.0   | 2.89 | 5.47  | 0.0   | 0.0   |
| 17.54 | 16 | --    | --    | --    | 73.99 | 12.07 | 1.55 | 0.0  | 0.0   | 0.93 | 7.74  | 0.0   | 1.24  |
| 19.06 | 17 | --    | --    | --    | 78.90 | 7.79  | 0.32 | 0.0  | 0.0   | 1.95 | 8.12  | 0.0   | 0.0   |
| 20.59 | 18 | --    | --    | --    | 72.73 | 14.61 | 1.30 | 0.0  | 0.0   | 3.90 | 3.90  | 0.0   | 0.32  |
| 22.11 | 19 | --    | --    | --    | 76.09 | 9.32  | 0.93 | 0.0  | 0.0   | 2.17 | 5.90  | 0.0   | 0.62  |
| 23.64 | 20 | --    | --    | --    | 81.03 | 12.54 | 0.32 | 0.0  | 0.0   | 0.0  | 3.86  | 0.0   | 0.0   |

## APPENDIX 2.—Continued.

## CORE S75

| DEPTH | NO | GSHW | GSHF | PSHF | SHLO  | OSTR | DIAT | OTH   | CARBON-14    |
|-------|----|------|------|------|-------|------|------|-------|--------------|
| 0.0   | 1  | 0.32 | 0.0  | 0.0  | 0.96  | 0.0  | 0.0  | 0.0   |              |
| 0.15  | 2  | 0.0  | 0.0  | 0.0  | 5.61  | 0.0  | 0.0  | 6.54  |              |
| 0.92  | 3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.67  |              |
| 1.53  | 4  | 0.0  | 0.33 | 0.0  | 0.66  | 0.33 | 0.0  | 1.97  |              |
| 2.14  | 21 | 0.0  | 0.0  | 0.0  | 0.33  | 0.0  | 0.0  | 0.98  |              |
| 2.89  | 22 | 0.0  | 0.0  | 0.0  | 0.0   | 0.33 | 0.0  | 0.0   |              |
| 2.60  | 23 | 0.58 | 0.0  | 0.0  | 20.76 | 4.09 | 0.0  | 0.0   | 2900 +/- 60  |
| 3.36  | 5  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0   |              |
| 3.97  | 6  | 0.0  | 0.0  | 0.0  | 2.87  | 1.27 | 0.0  | 0.64  |              |
| 5.34  | 7  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 2.92  |              |
| 6.56  | 8  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 13.55 |              |
| 7.63  | 24 | 0.0  | 0.0  | 0.0  | 4.01  | 0.62 | 0.0  | 0.0   | 5830 +/- 90  |
| 8.54  | 9  | 0.33 | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 20.79 |              |
| 9.00  | 25 | 0.0  | 0.0  | 0.0  | 5.73  | 0.32 | 0.0  | 0.0   |              |
| 9.46  | 26 | 0.0  | 0.0  | 0.0  | 1.62  | 0.0  | 0.0  | 0.0   |              |
| 10.07 | 10 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 2.52  |              |
| 10.68 | 27 | 0.32 | 0.0  | 0.0  | 2.88  | 0.64 | 0.0  | 0.0   |              |
| 11.59 | 11 | 0.0  | 0.0  | 0.0  | 7.19  | 5.56 | 0.0  | 0.65  |              |
| 11.90 | 28 | 0.0  | 0.0  | 2.83 | 0.0   | 0.0  | 0.0  | 0.0   |              |
| 13.12 | 12 | 0.0  | 0.0  | 0.0  | 0.97  | 0.0  | 0.0  | 1.30  |              |
| 13.26 | 30 | 0.0  | 0.0  | 0.0  | 3.87  | 0.89 | 0.0  | 0.0   |              |
| 13.42 | 29 | 0.0  | 0.0  | 0.0  | 2.26  | 0.65 | 0.32 | 0.0   |              |
| 14.34 | 13 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 1.29  | 6960 +/- 110 |
| 14.79 | 14 | 0.0  | 0.0  | 0.0  | 0.61  | 0.91 | 0.0  | 1.82  |              |
| 16.01 | 15 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 5.14  |              |
| 17.54 | 16 | 0.0  | 0.0  | 0.0  | 1.24  | 0.62 | 0.0  | 0.62  |              |
| 19.06 | 17 | 0.0  | 0.0  | 0.0  | 1.62  | 0.0  | 0.0  | 1.30  |              |
| 20.59 | 18 | 0.0  | 0.0  | 0.0  | 0.32  | 0.0  | 0.0  | 2.92  |              |
| 22.11 | 19 | 0.0  | 0.0  | 0.31 | 0.62  | 0.0  | 0.0  | 4.04  |              |
| 23.64 | 20 | 0.0  | 0.0  | 0.0  | 1.29  | 0.0  | 0.0  | 0.96  |              |

## APPENDIX 2.—Continued.

| CORE S76 |    |       |       |       |       |      |       |      |       |      |       |       |       |  |
|----------|----|-------|-------|-------|-------|------|-------|------|-------|------|-------|-------|-------|--|
| DEPTH    | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA  | GLAU | PVRT  | GYP  | AGG   | PLTM  | FORB  |  |
| 0.0      | 1  | 41.39 | 47.11 | 11.50 | 20.38 | 1.25 | 3.45  | 0.0  | 0.0   | 1.25 | 43.57 | 22.57 | 3.13  |  |
| 1.53     | 2  | 25.06 | 43.07 | 31.86 | 11.51 | 0.99 | 1.64  | 0.0  | 0.0   | 1.64 | 19.41 | 3.29  | 6.58  |  |
| 1.83     | 15 | 17.09 | 78.73 | 4.18  | 46.15 | 2.96 | 5.92  | 2.96 | 0.0   | 1.18 | 3.55  | 5.03  | 2.37  |  |
| 2.14     | 16 | 41.44 | 54.40 | 4.15  | 88.16 | 2.63 | 0.33  | 0.66 | 0.0   | 1.97 | 1.97  | 1.97  | 1.97  |  |
| 2.44     | 3  | 47.10 | 38.83 | 14.07 | 0.67  | 0.0  | 5.33  | 0.0  | 0.0   | 0.0  | 0.0   | 3.00  | 15.00 |  |
| 2.75     | 17 | 11.63 | 82.92 | 5.46  | 66.96 | 2.36 | 2.65  | 0.0  | 0.0   | 2.06 | 4.42  | 4.13  | 4.13  |  |
| 3.51     | 18 | 60.21 | 37.71 | 2.08  | 1.58  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.32  | 0.0   | 13.61 |  |
| 3.97     | 4  | 84.47 | 6.92  | 8.61  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 27.81 | 0.0   | 1.88  |  |
| 4.58     | 19 | 40.19 | 48.91 | 10.90 | 14.05 | 1.31 | 0.33  | 0.0  | 0.65  | 0.98 | 3.92  | 0.33  | 18.30 |  |
| 5.49     | 5  | 8.33  | 31.72 | 59.95 | 10.22 | 0.0  | 15.97 | 0.0  | 0.0   | 0.0  | 0.0   | 17.25 | 23.64 |  |
| 5.94     | 20 | 65.24 | 25.35 | 9.41  | 8.38  | 0.0  | 0.0   | 0.0  | 0.58  | 0.29 | 0.87  | 0.0   | 12.14 |  |
| 6.56     | 21 | 0.77  | 76.14 | 23.09 | 7.59  | 0.0  | 2.22  | 0.0  | 30.70 | 0.0  | 0.0   | 6.65  | 0.32  |  |
| 7.02     | 6  | 0.71  | 39.94 | 59.35 | 37.70 | 1.60 | 2.56  | 0.0  | 0.0   | 3.83 | 18.53 | 8.63  | 4.47  |  |
| 7.32     | 22 | 0.14  | 79.94 | 19.92 | 78.50 | 4.56 | 0.33  | 0.0  | 11.40 | 0.0  | 0.0   | 2.28  | 0.65  |  |
| 7.93     | 23 | 0.17  | 72.95 | 26.88 | 81.04 | 3.67 | 0.0   | 0.0  | 11.31 | 1.83 | 0.0   | 0.92  | 0.92  |  |
| 8.54     | 7  | 1.15  | 37.92 | 60.93 | 60.06 | 9.09 | 1.95  | 0.0  | 0.0   | 5.52 | 7.79  | 6.17  | 1.95  |  |
| 9.30     | 8  | --    | --    | --    | 10.90 | 1.28 | 0.64  | 0.0  | 0.0   | 0.64 | 48.08 | 0.0   | 4.49  |  |
| 11.13    | 9  | --    | --    | --    | 40.26 | 4.22 | 0.97  | 0.0  | 0.0   | 1.62 | 28.25 | 0.0   | 5.52  |  |
| 12.96    | 10 | --    | --    | --    | 22.66 | 0.0  | 3.02  | 0.0  | 0.0   | 0.0  | 25.98 | 0.0   | 4.23  |  |
| 14.25    | 11 | --    | --    | --    | 40.74 | 1.54 | 2.78  | 0.0  | 0.0   | 0.0  | 16.05 | 0.93  | 6.79  |  |
| 16.01    | 12 | --    | --    | --    | 42.69 | 2.34 | 2.05  | 0.0  | 0.0   | 1.17 | 21.64 | 2.63  | 3.80  |  |
| 17.54    | 13 | --    | --    | --    | 70.42 | 4.18 | 0.0   | 0.0  | 0.0   | 1.61 | 9.00  | 0.32  | 0.64  |  |
| 19.06    | 14 | --    | --    | --    | 32.15 | 1.29 | 2.89  | 0.0  | 0.0   | 0.96 | 30.23 | 2.57  | 6.11  |  |



## APPENDIX 2.—Continued.

## CORE S76

| DEPTH | NO | GSHW  | PSHW | PSHF | SHLO  | OSTR  | ECHN | DIAT | OTH   | CARBON-14    |
|-------|----|-------|------|------|-------|-------|------|------|-------|--------------|
| 0.0   | 1  | 0.0   | 0.0  | 0.0  | 1.88  | 0.31  | 0.0  | 0.0  | 2.19  |              |
| 1.53  | 2  | 0.0   | 0.0  | 0.0  | 1.32  | 6.58  | 0.88 | 0.0  | 46.38 |              |
| 1.83  | 15 | 0.0   | 0.0  | 0.0  | 27.51 | 2.37  | 0.0  | 0.0  | 0.0   |              |
| 2.14  | 16 | 0.0   | 0.0  | 0.0  | 0.33  | 0.0   | 0.0  | 0.0  | 0.0   |              |
| 2.44  | 3  | 0.0   | 0.0  | 0.0  | 68.00 | 4.33  | 0.0  | 0.0  | 3.67  |              |
| 2.75  | 17 | 0.0   | 0.0  | 0.0  | 11.21 | 2.06  | 0.0  | 0.0  | 0.0   |              |
| 3.51  | 18 | 0.0   | 0.0  | 0.0  | 77.85 | 6.65  | 0.0  | 0.0  | 0.0   |              |
| 3.97  | 4  | 5.94  | 0.0  | 0.63 | 53.13 | 10.00 | 0.0  | 0.0  | 0.64  |              |
| 4.58  | 19 | 0.0   | 0.0  | 0.0  | 58.17 | 1.96  | 0.0  | 0.0  | 0.0   |              |
| 5.49  | 5  | 0.0   | 0.0  | 0.64 | 28.75 | 0.96  | 0.0  | 1.60 | 0.96  | 4950 +/- 130 |
| 5.94  | 20 | 0.0   | 0.0  | 0.0  | 76.59 | 1.16  | 0.0  | 0.0  | 0.0   |              |
| 6.56  | 21 | 33.54 | 0.0  | 0.0  | 18.99 | 0.32  | 0.0  | 0.0  | 0.0   |              |
| 7.02  | 6  | 0.0   | 0.0  | 0.0  | 20.77 | 1.92  | 0.0  | 0.0  | 0.0   |              |
| 7.32  | 22 | 1.30  | 0.0  | 0.0  | 1.63  | 0.0   | 0.0  | 0.0  | 0.0   |              |
| 7.93  | 23 | 0.0   | 0.0  | 0.0  | 0.31  | 0.0   | 0.0  | 0.0  | 0.0   |              |
| 8.54  | 7  | 0.0   | 0.0  | 5.52 | 0.65  | 0.0   | 0.0  | 0.0  | 1.30  | 6680 +/- 100 |
| 9.30  | 8  | 0.0   | 0.0  | 0.0  | 22.44 | 9.62  | 0.0  | 0.0  | 1.92  |              |
| 11.13 | 9  | 0.0   | 0.0  | 0.0  | 10.39 | 4.55  | 0.0  | 0.0  | 4.22  |              |
| 12.96 | 10 | 3.63  | 0.0  | 0.0  | 34.14 | 5.44  | 0.0  | 0.0  | 0.91  |              |
| 14.25 | 11 | 0.0   | 1.23 | 0.0  | 23.15 | 1.85  | 0.0  | 0.0  | 4.94  |              |
| 16.01 | 12 | 0.0   | 0.0  | 0.0  | 10.23 | 5.56  | 0.0  | 0.0  | 7.89  |              |
| 17.54 | 13 | 0.32  | 0.0  | 0.0  | 8.68  | 1.61  | 0.0  | 0.0  | 3.22  |              |
| 19.06 | 14 | 0.0   | 0.0  | 0.0  | 19.61 | 2.57  | 0.0  | 0.0  | 1.61  |              |

## APPENDIX 2.—Continued.

## CORE S77

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | PYRT | GYP  | LITH | AGG   | PLTM  | FORB | FORP |
|-------|----|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|------|------|
| 0.0   | 1  | 50.72 | 48.41 | 0.87  | 10.89 | 0.33  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 58.75 | 0.0   | 0.99 | 0.0  |
| 2.75  | 2  | 83.30 | 15.58 | 1.12  | 32.27 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 32.91 | 26.84 | 0.0  | 0.0  |
| 3.97  | 3  | --    | --    | --    | 30.13 | 8.32  | 0.32 | 0.0  | 0.0  | 0.64 | 0.0  | 5.45  | 2.88  | 0.96 | 0.0  |
| 5.2   | 29 | 23.03 | 57.66 | 19.31 | 29.6  | 1.5   | 0.0  | 0.0  | 7.9  | 2.8  | 0.3  | 3.1   | 1.0   | 2.4  | 0.0  |
| 5.8   | 30 | 2.54  | 32.36 | 65.10 | 43.7  | 2.5   | 0.3  | 0.0  | 3.0  | 0.6  | 0.0  | 1.1   | 1.7   | 2.5  | 0.0  |
| 6.1   | 31 | 2.79  | 63.03 | 34.18 | 52.3  | 3.1   | 0.0  | 0.0  | 1.4  | 0.6  | 0.3  | 0.6   | 2.3   | 1.9  | 0.0  |
| 6.7   | 32 | 4.05  | 57.73 | 38.22 | 18.3  | 1.8   | 0.5  | 0.0  | 0.2  | 28.6 | 0.0  | 0.0   | 3.7   | 2.5  | 0.0  |
| 6.71  | 4  | 2.76  | 64.64 | 32.60 | 56.44 | 6.27  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 1.98  | 4.29  | 8.25 | 0.0  |
| 7.0   | 33 | 1.02  | 46.83 | 52.15 | 74.9  | 2.9   | 0.0  | 0.0  | 2.0  | 1.5  | 0.6  | 0.9   | 1.2   | 4.0  | 0.0  |
| 7.7   | 34 | 5.62  | 62.33 | 32.05 | 45.2  | 0.7   | 0.3  | 0.0  | 1.3  | 2.1  | 0.0  | 1.0   | 4.7   | 0.0  | 0.0  |
| 8.24  | 5  | 1.79  | 72.49 | 25.72 | 83.33 | 7.69  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.88  | 0.64  | 0.0  | 0.0  |
| 8.3   | 35 | 7.32  | 66.20 | 26.48 | 21.5  | 1.5   | 0.6  | 0.0  | 5.1  | 2.4  | 0.0  | 1.2   | 3.33  | 3.9  | 0.3  |
| 8.4   | 36 | 0.84  | 63.83 | 35.33 | 50.6  | 3.0   | 1.2  | 0.0  | 1.2  | 0.0  | 0.0  | 1.7   | 1.5   | 5.2  | 0.0  |
| 8.6   | 37 | 1.21  | 42.17 | 56.62 | 91.6  | 3.7   | 2.5  | 0.3  | 0.0  | 0.3  | 0.0  | 0.3   | 0.0   | 0.0  | 0.0  |
| 8.99  | 6  | 70.75 | 25.89 | 3.36  | 82.03 | 7.19  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.63  | 3.59  | 0.0  | 0.0  |
| 9.91  | 7  | --    | --    | --    | 71.99 | 10.75 | 1.63 | 1.95 | 0.0  | 3.26 | 0.0  | 4.23  | 0.33  | 0.33 | 0.0  |
| 10.8  | 38 | 10.45 | 22.05 | 67.49 | 95.1  | 0.6   | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |
| 11.1  | 39 | 1.32  | 47.74 | 50.95 | 85.4  | 4.9   | 4.9  | 0.0  | 0.0  | 2.1  | 0.0  | 1.8   | 0.0   | 0.0  | 0.0  |
| 11.6  | 40 | 1.58  | 57.80 | 40.62 | 59.5  | 6.1   | 10.7 | 0.3  | 1.3  | 3.2  | 0.0  | 12.6  | 0.0   | 0.0  | 0.0  |
| 12.2  | 41 | 52.34 | 22.49 | 25.17 | 88.3  | 1.2   | 0.6  | 0.0  | 0.0  | 5.5  | 0.0  | 1.2   | 0.3   | 0.0  | 0.0  |
| 12.20 | 8  | 37.34 | 15.48 | 47.19 | 91.88 | 3.90  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.62  | 0.65  | 0.0  | 0.0  |
| 12.3  | 42 | 69.68 | 21.57 | 8.75  | 95.5  | 1.8   | 0.9  | 0.0  | 0.6  | 0.0  | 0.0  | 0.6   | 0.0   | 0.0  | 0.0  |
| 12.4  | 43 | 95.39 | 4.58  | 0.02  | 95.5  | 0.3   | 0.3  | 0.0  | 0.0  | 2.4  | 0.0  | 0.3   | 0.3   | 0.0  | 0.0  |
| 12.81 | 9  | 82.08 | 2.82  | 15.10 | 91.86 | 6.84  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  |
| 13.57 | 10 | --    | --    | --    | 80.19 | 5.84  | 0.65 | 0.32 | 0.0  | 0.32 | 0.0  | 7.47  | 0.0   | 0.0  | 0.0  |
| 14.79 | 11 | --    | --    | --    | 83.28 | 7.02  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67  | 0.33  | 0.67 | 0.0  |
| 16.01 | 12 | --    | --    | --    | 82.52 | 10.36 | 0.0  | 0.0  | 0.0  | 0.65 | 0.0  | 2.27  | 0.32  | 0.0  | 0.0  |
| 16.7  | 44 | 13.49 | 25.28 | 61.23 | 96.2  | 1.6   | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 1.2   | 0.0   | 0.0  | 0.0  |
| 17.5  | 45 | 35.56 | 16.27 | 48.17 | 88.2  | 3.4   | 0.3  | 0.0  | 0.0  | 5.5  | 0.0  | 2.1   | 0.0   | 0.0  | 0.0  |
| 17.69 | 13 | 79.06 | 12.89 | 8.05  | 95.32 | 4.01  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.67  | 0.0   | 0.0  | 0.0  |
| 18.45 | 14 | --    | --    | --    | 85.62 | 10.46 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.96  | 0.0   | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S77

| DEPTH | NO | SAND | SILT | CLAY | LT    | HVY   | MICA | GLAU | PYRT | GYP  | LITH | AGG  | PLTM | FORB | FORP |
|-------|----|------|------|------|-------|-------|------|------|------|------|------|------|------|------|------|
| 19.98 | 15 | --   | --   | --   | 90.49 | 3.28  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.93 | 0.0  | 0.0  | 0.0  |
| 21.50 | 16 | --   | --   | --   | 89.51 | 6.89  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.64 | 0.0  | 0.0  | 0.0  |
| 23.03 | 17 | --   | --   | --   | 85.20 | 9.87  | 0.0  | 0.99 | 0.0  | 0.33 | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  |
| 24.55 | 18 | --   | --   | --   | 85.16 | 10.32 | 0.0  | 1.94 | 0.0  | 0.32 | 0.0  | 0.65 | 0.0  | 0.0  | 0.0  |
| 26.08 | 19 | --   | --   | --   | 82.89 | 13.82 | 0.0  | 0.99 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.60 | 20 | --   | --   | --   | 82.45 | 14.90 | 0.33 | 0.66 | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  |
| 29.13 | 21 | --   | --   | --   | 81.13 | 13.91 | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 2.32 | 0.0  | 0.0  | 0.0  |
| 30.65 | 22 | --   | --   | --   | 84.72 | 12.62 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.99 | 0.0  | 0.0  | 0.0  |
| 32.18 | 23 | --   | --   | --   | 83.82 | 12.30 | 0.0  | 1.62 | 0.0  | 0.0  | 0.0  | 0.32 | 0.0  | 0.0  | 0.0  |
| 33.70 | 24 | --   | --   | --   | 83.06 | 13.03 | 0.65 | 0.98 | 0.0  | 0.98 | 0.0  | 0.65 | 0.0  | 0.0  | 0.0  |
| 35.23 | 25 | --   | --   | --   | 80.71 | 13.50 | 0.0  | 0.96 | 0.0  | 0.64 | 0.0  | 2.57 | 0.0  | 0.0  | 0.0  |
| 36.75 | 26 | --   | --   | --   | 81.25 | 15.79 | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  |
| 38.28 | 27 | --   | --   | --   | 81.85 | 7.59  | 0.0  | 0.99 | 0.0  | 1.32 | 0.0  | 2.64 | 0.0  | 0.66 | 0.0  |
| 39.50 | 28 | --   | --   | --   | 83.65 | 10.58 | 0.0  | 0.64 | 0.0  | 0.32 | 0.0  | 1.28 | 0.0  | 0.96 | 0.0  |



| DEPTH | NO | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | ECHN | BRYO | DIAT | CARBT | CARBON-14 |
|-------|----|------|------|------|------|------|------|------|------|------|-------|-----------|
| 19.98 | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.30  |           |
| 21.50 | 16 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.97  |           |
| 23.03 | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.0  | 2.63  |           |
| 24.55 | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 1.29 | 0.0  | 0.0  | 0.0  | 0.0  | 0.32  |           |
| 26.08 | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.0  | 1.64  |           |
| 27.60 | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.33 | 0.0  | 0.0  | 0.33  |           |
| 29.13 | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.66 | 0.0  | 0.0  | 0.0  | 0.0  | 1.32  |           |
| 30.65 | 22 | 0.0  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.33  |           |
| 32.18 | 23 | 0.0  | 0.0  | 0.0  | 0.0  | 1.94 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |           |
| 33.70 | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.65  |           |
| 35.23 | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.96 | 0.0  | 0.0  | 0.0  | 0.0  | 0.64  |           |
| 36.75 | 26 | 0.0  | 0.0  | 0.0  | 0.0  | 1.32 | 0.0  | 0.0  | 0.0  | 0.0  | 1.32  |           |
| 38.28 | 27 | 0.0  | 0.0  | 0.0  | 0.0  | 4.62 | 0.33 | 0.0  | 0.0  | 0.0  | 0.0   |           |
| 39.50 | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 2.56 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |           |



## APPENDIX 2.—Continued.

## CORE S78

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY  | MICA | GLAU | PYRT | GYP  | LITH | AGG | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|------|------|------|------|------|------|-----|------|------|------|
| 0.0   | 1  | 51.66 | 28.94 | 19.41 | 72.9 | 4.6  | 0.3  | 0.0  | 0.0  | 7.0  | 0.3  | 1.3 | 7.4  | 0.0  | 0.0  |
| 0.3   | 16 | 48.36 | 32.14 | 19.49 | 89.3 | 5.3  | 3.3  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 1.5   | 2  | 48.60 | 30.93 | 20.47 | 83.4 | 8.4  | 0.9  | 0.0  | 0.0  | 1.7  | 0.6  | 0.3 | 0.0  | 0.3  | 0.0  |
| 1.7   | 17 | 58.41 | 35.08 | 6.51  | 84.1 | 6.6  | 0.7  | 0.0  | 0.0  | 3.8  | 0.0  | 0.7 | 0.0  | 0.0  | 0.0  |
| 3.0   | 3  | 59.17 | 19.80 | 21.04 | 85.2 | 8.8  | 0.3  | 0.0  | 0.0  | 1.6  | 0.9  | 0.0 | 0.0  | 0.0  | 0.0  |
| 4.0   | 4  | --    | --    | --    | 17.7 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 3.8  | 0.0  |
| 4.3   | 18 | 18.01 | 34.44 | 47.55 | 6.0  | 0.3  | 1.1  | 0.0  | 1.1  | 1.4  | 0.0  | 0.0 | 0.0  | 3.2  | 0.0  |
| 4.6   | 19 | 21.56 | 61.39 | 17.05 | 4.6  | 0.0  | 0.3  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 7.9  | 0.0  |
| 5.2   | 20 | 19.55 | 35.90 | 44.55 | 0.5  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 23.5 | 1.3  |
| 5.8   | 5  | 2.80  | 45.05 | 52.15 | 61.8 | 3.2  | 0.0  | 0.0  | 10.6 | 5.1  | 0.0  | 0.0 | 0.6  | 0.0  | 0.0  |
| 5.9   | 21 | 20.07 | 42.11 | 37.83 | 42.6 | 1.0  | 4.8  | 1.3  | 2.3  | 4.4  | 0.0  | 0.3 | 0.0  | 11.9 | 0.0  |
| 7.0   | 22 | 15.35 | 61.77 | 22.87 | 76.0 | 2.7  | 4.2  | 1.5  | 2.1  | 6.9  | 0.0  | 0.0 | 1.5  | 0.0  | 0.0  |
| 7.1   | 23 | 79.96 | 10.08 | 9.96  | 91.4 | 1.8  | 0.9  | 2.1  | 0.3  | 1.2  | 0.0  | 0.0 | 0.3  | 0.0  | 0.0  |
| 7.3   | 6  | 21.40 | 32.53 | 46.07 | 75.4 | 2.7  | 0.9  | 0.0  | 0.0  | 1.8  | 0.0  | 0.6 | 0.6  | 0.0  | 0.0  |
| 7.4   | 24 | 25.39 | 33.87 | 40.74 | 70.7 | 4.1  | 1.7  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6 | 0.0  | 0.0  | 0.0  |
| 7.6   | 25 | 21.36 | 33.99 | 44.65 | 61.8 | 0.0  | 0.3  | 0.0  | 0.0  | 7.5  | 0.0  | 0.6 | 0.0  | 0.0  | 0.0  |
| 7.9   | 7  | 16.44 | 28.53 | 55.03 | 67.9 | 3.1  | 0.0  | 0.0  | 0.0  | 11.4 | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 8.0   | 8  | --    | --    | --    | 0.0  | 81.1 | 3.7  | 0.0  | 0.0  | 9.1  | 0.0  | 0.9 | 0.0  | 0.0  | 0.0  |
| 10.0  | 9  | --    | --    | --    | 0.0  | 79.9 | 4.7  | 0.0  | 0.0  | 9.2  | 0.0  | 0.3 | 0.0  | 0.0  | 0.0  |
| 11.0  | 10 | --    | --    | --    | 0.0  | 82.2 | 5.6  | 0.0  | 0.0  | 5.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 13.0  | 11 | --    | --    | --    | 0.0  | 73.7 | 7.2  | 0.0  | 0.0  | 12.7 | 0.0  | 1.1 | 0.0  | 0.0  | 0.0  |
| 14.0  | 12 | --    | --    | --    | 0.0  | 88.3 | 5.2  | 0.0  | 0.0  | 2.3  | 1.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 16.0  | 13 | --    | --    | --    | 0.0  | 80.3 | 5.8  | 0.0  | 0.0  | 9.4  | 0.0  | 0.6 | 0.0  | 0.0  | 0.0  |
| 17.0  | 14 | --    | --    | --    | 0.0  | 85.5 | 4.4  | 0.0  | 0.0  | 4.7  | 1.6  | 0.0 | 0.0  | 0.0  | 0.0  |
| 19.0  | 15 | --    | --    | --    | 0.0  | 78.5 | 5.4  | 0.0  | 0.0  | 11.5 | 0.9  | 0.9 | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

| CORE S78 |    |      |      |      |      |      |      |      |       |       |              | CARBON-14 |
|----------|----|------|------|------|------|------|------|------|-------|-------|--------------|-----------|
| DEPTH    | NO | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | ECHN | RADIO | CARBT |              |           |
| 0.0      | 1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 6.2   |              |           |
| 0.3      | 16 | 0.0  | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |              |           |
| 1.5      | 2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0   | 3.5   |              |           |
| 1.7      | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0   | 3.8   |              |           |
| 3.0      | 3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.1   |              |           |
| 4.0      | 4  | 0.0  | 0.3  | 0.3  | 8.7  | 50.7 | 2.4  | 0.0  | 0.0   | 15.8  |              |           |
| 4.3      | 18 | 0.0  | 0.3  | 9.2  | 63.1 | 5.5  | 0.0  | 0.0  | 0.3   | 8.4   | 3250+/- 60   |           |
| 4.6      | 19 | 1.7  | 1.2  | 5.2  | 75.6 | 0.0  | 0.0  | 0.3  | 0.0   | 2.3   |              |           |
| 5.2      | 20 | 0.3  | 0.0  | 11.3 | 45.1 | 14.4 | 0.0  | 0.0  | 0.0   | 3.1   |              |           |
| 5.8      | 5  | 0.0  | 0.0  | 1.1  | 8.1  | 0.3  | 0.0  | 0.0  | 0.0   | 9.2   |              |           |
| 5.9      | 21 | 0.3  | 0.0  | 10.0 | 9.7  | 2.3  | 0.0  | 0.0  | 0.0   | 6.1   |              |           |
| 7.0      | 22 | 0.0  | 0.0  | 0.0  | 2.4  | 0.3  | 0.0  | 0.0  | 0.0   | 2.4   | 6730+/- 70   |           |
| 7.1      | 23 | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 0.0   | 0.9   |              |           |
| 7.3      | 6  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 17.7  |              |           |
| 7.4      | 24 | 0.0  | 0.0  | 0.3  | 2.1  | 0.0  | 0.0  | 0.0  | 0.0   | 21.0  |              |           |
| 7.6      | 25 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 29.8  |              |           |
| 7.9      | 7  | 0.0  | 0.0  | 0.3  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0   | 16.4  | 15920+/- 140 |           |
| 8.0      | 8  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 4.9   |              |           |
| 10.0     | 9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 5.9   |              |           |
| 11.0     | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 7.2   |              |           |
| 13.0     | 11 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 5.0   |              |           |
| 14.0     | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 2.9   |              |           |
| 16.0     | 13 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   | 3.6   |              |           |
| 17.0     | 14 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 3.8   |              |           |
| 19.0     | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 2.7   |              |           |

## APPENDIX 2.—Continued.

## CORE S79

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | GYP  | LITH | AGG | PLTM | FORB | FORP |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|-----|------|------|------|
| 0.0   | 1  | 54.41 | 24.15 | 21.44 | 5.2  | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9 | 0.0  | 6.1  | 0.3  |
| 0.7   | 30 | 73.95 | 12.69 | 13.36 | 73.9 | 3.3 | 0.3  | 0.3  | 0.0  | 7.7  | 0.3  | 0.6 | 0.0  | 0.0  | 0.0  |
| 1.5   | 2  | 67.13 | 10.68 | 22.18 | 69.5 | 3.7 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6 | 0.0  | 0.3  | 0.0  |
| 1.6   | 31 | 45.92 | 44.42 | 9.65  | 61.6 | 3.6 | 0.0  | 0.0  | 0.0  | 9.7  | 0.9  | 0.0 | 0.0  | 0.9  | 0.0  |
| 1.9   | 32 | 46.32 | 44.88 | 8.80  | 32.3 | 1.2 | 0.3  | 0.0  | 0.0  | 3.1  | 0.6  | 0.0 | 0.0  | 1.2  | 0.0  |
| 2.1   | 33 | 54.37 | 31.68 | 13.95 | 65.1 | 4.8 | 0.3  | 0.0  | 0.0  | 1.8  | 0.0  | 0.0 | 0.0  | 0.9  | 0.0  |
| 2.4   | 34 | 43.18 | 33.97 | 22.85 | 31.3 | 1.6 | 0.6  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0 | 0.9  | 1.8  | 0.0  |
| 3.0   | 3  | 64.29 | 30.70 | 5.02  | 56.7 | 0.6 | 0.0  | 0.0  | 0.0  | 28.7 | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 3.1   | 35 | 35.53 | 27.32 | 37.14 | 5.3  | 0.0 | 0.8  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8 | 0.0  | 5.3  | 0.0  |
| 3.5   | 36 | 34.58 | 61.95 | 3.47  | 3.0  | 0.0 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8 | 0.0  | 0.3  | 0.0  |
| 4.1   | 37 | 34.71 | 44.73 | 20.56 | 45.9 | 1.7 | 0.0  | 0.0  | 0.0  | 5.8  | 0.0  | 0.6 | 0.3  | 0.3  | 0.0  |
| 4.2   | 38 | 50.60 | 18.68 | 30.72 | 2.8  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.8 | 0.0  | 6.5  | 0.9  |
| 4.3   | 39 | 57.24 | 16.92 | 25.83 | 4.4  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5.7 | 0.0  | 2.5  | 0.0  |
| 4.6   | 40 | 42.66 | 28.87 | 28.48 | 71.6 | 2.8 | 0.0  | 0.0  | 0.0  | 4.3  | 0.0  | 0.6 | 0.0  | 3.7  | 0.0  |
| 4.7   | 41 | 16.72 | 62.98 | 20.29 | 76.5 | 3.9 | 0.6  | 0.6  | 0.0  | 16.7 | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5.2   | 4  | 10.07 | 50.52 | 39.41 | 87.8 | 2.8 | 5.0  | 0.3  | 0.0  | 1.2  | 0.6  | 0.6 | 0.0  | 0.0  | 0.0  |
| 5.3   | 42 | --    | --    | --    | 69.5 | 2.2 | 1.3  | 0.9  | 0.0  | 11.3 | 0.0  | 0.9 | 0.0  | 0.6  | 0.0  |
| 5.5   | 43 | 35.15 | 45.61 | 19.25 | 81.9 | 5.6 | 1.6  | 0.9  | 0.0  | 7.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5.7   | 44 | 0.74  | 51.04 | 48.21 | 89.0 | 1.9 | 5.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 5.9   | 45 | 32.91 | 42.47 | 24.62 | 76.2 | 6.6 | 2.0  | 0.0  | 0.0  | 12.9 | 0.0  | 0.6 | 0.6  | 0.0  | 0.0  |
| 6.1   | 5  | 21.22 | 41.98 | 36.81 | 58.5 | 2.4 | 0.3  | 0.3  | 0.0  | 26.5 | 2.1  | 2.1 | 0.6  | 0.3  | 0.0  |
| 6.2   | 46 | 25.42 | 41.79 | 32.79 | 83.2 | 5.3 | 0.9  | 0.0  | 0.0  | 5.6  | 0.3  | 0.9 | 0.0  | 0.0  | 0.0  |
| 6.6   | 47 | 21.72 | 52.14 | 26.14 | 87.9 | 2.2 | 1.9  | 0.0  | 0.0  | 6.0  | 0.9  | 0.0 | 0.0  | 0.0  | 0.0  |
| 7.0   | 48 | 61.01 | 22.74 | 16.25 | 80.8 | 2.9 | 0.9  | 0.6  | 0.3  | 9.9  | 2.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 7.6   | 6  | 71.21 | 10.16 | 18.63 | 82.0 | 3.4 | 0.0  | 0.3  | 0.0  | 12.7 | 0.3  | 0.6 | 0.0  | 0.0  | 0.0  |
| 8.0   | 7  | --    | --    | --    | 78.6 | 5.6 | 0.0  | 0.0  | 0.0  | 6.2  | 1.2  | 0.0 | 0.0  | 0.3  | 0.0  |
| 10.0  | 8  | --    | --    | --    | 79.4 | 6.4 | 0.0  | 0.0  | 0.0  | 4.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 11.0  | 9  | --    | --    | --    | 68.7 | 4.6 | 0.0  | 0.0  | 0.0  | 0.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 13.0  | 10 | --    | --    | --    | 80.1 | 4.8 | 0.0  | 0.0  | 0.0  | 5.7  | 0.3  | 0.0 | 0.0  | 0.3  | 0.0  |
| 14.4  | 11 | --    | --    | --    | 76.5 | 6.4 | 0.0  | 0.0  | 0.0  | 8.4  | 0.0  | 0.0 | 0.0  | 0.3  | 0.0  |
| 16.0  | 12 | --    | --    | --    | 82.8 | 7.2 | 0.0  | 0.2  | 0.0  | 3.0  | 0.5  | 0.0 | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

| CORE S79 |    | DEPTH | NO | SAND | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | GYP  | LITH | AGG | PLTM | FORB | FORP |
|----------|----|-------|----|------|------|------|------|-----|------|------|------|------|------|-----|------|------|------|
| 17.5     | 13 | --    | -- | --   | --   | --   | 76.3 | 5.7 | 0.0  | 0.0  | 0.0  | 7.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 19.0     | 14 | --    | -- | --   | --   | --   | 79.8 | 4.8 | 0.0  | 0.0  | 0.0  | 6.0  | 0.3  | 0.0 | 0.0  | 0.3  | 0.0  |
| 20.5     | 15 | --    | -- | --   | --   | --   | 79.1 | 2.5 | 0.0  | 0.0  | 0.0  | 4.7  | 0.9  | 0.0 | 0.0  | 0.0  | 0.0  |
| 22.0     | 16 | --    | -- | --   | --   | --   | 81.9 | 3.5 | 0.0  | 0.0  | 0.0  | 2.4  | 0.3  | 0.0 | 0.0  | 0.5  | 0.0  |
| 23.6     | 17 | --    | -- | --   | --   | --   | 82.8 | 5.0 | 0.0  | 0.0  | 0.0  | 4.1  | 0.3  | 0.0 | 0.0  | 0.3  | 0.0  |
| 25.5     | 18 | --    | -- | --   | --   | --   | 79.6 | 3.6 | 0.6  | 0.0  | 0.0  | 3.3  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  |
| 26.5     | 19 | --    | -- | --   | --   | --   | 52.9 | 3.0 | 0.3  | 0.0  | 0.0  | 12.7 | 0.6  | 0.0 | 0.0  | 0.6  | 0.0  |
| 28.5     | 20 | --    | -- | --   | --   | --   | 54.0 | 3.8 | 0.8  | 0.0  | 0.0  | 14.9 | 0.5  | 0.3 | 0.0  | 0.0  | 0.0  |
| 29.3     | 27 | --    | -- | --   | --   | --   | 71.8 | 4.1 | 0.0  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 30.0     | 21 | --    | -- | --   | --   | --   | 48.5 | 4.3 | 0.3  | 0.0  | 0.0  | 4.9  | 0.0  | 0.3 | 0.0  | 0.0  | 0.0  |
| 31.5     | 22 | --    | -- | --   | --   | --   | 51.0 | 3.6 | 0.0  | 0.0  | 0.0  | 11.9 | 0.0  | 0.0 | 0.3  | 0.3  | 0.0  |
| 33.2     | 23 | --    | -- | --   | --   | --   | 58.2 | 3.9 | 0.0  | 0.0  | 0.0  | 11.6 | 0.6  | 0.0 | 0.0  | 0.3  | 0.0  |
| 35.0     | 24 | --    | -- | --   | --   | --   | 63.7 | 3.1 | 0.0  | 0.3  | 0.0  | 8.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  |
| 36.0     | 25 | --    | -- | --   | --   | --   | 67.0 | 1.8 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.3 | 0.0  | 0.6  | 0.0  |
| 38.0     | 26 | --    | -- | --   | --   | --   | 62.8 | 3.7 | 0.0  | 0.0  | 0.0  | 4.0  | 0.6  | 0.0 | 0.0  | 0.3  | 0.0  |
| 41.0     | 28 | --    | -- | --   | --   | --   | 61.0 | 2.7 | 0.0  | 0.0  | 0.0  | 0.9  | 0.3  | 0.0 | 0.0  | 0.3  | 0.0  |
| 42.5     | 29 | --    | -- | --   | --   | --   | 35.9 | 1.7 | 0.3  | 0.0  | 0.0  | 4.7  | 0.0  | 0.3 | 0.0  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S79

| DEPTH | NO | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | ECHN | CARBT | CARBON-14    |
|-------|----|------|------|------|------|------|------|------|-------|--------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.0  | 4.6  | 32.5 | 0.0  | 0.0  | 50.1  |              |
| 0.7   | 30 | 0.0  | 0.0  | 0.0  | 0.3  | 4.7  | 0.8  | 0.0  | 8.0   |              |
| 1.5   | 2  | 0.0  | 0.0  | 0.0  | 0.8  | 17.5 | 0.3  | 0.0  | 7.0   |              |
| 1.6   | 31 | 0.0  | 0.0  | 0.0  | 1.5  | 10.3 | 0.3  | 0.0  | 11.8  |              |
| 1.9   | 32 | 0.0  | 0.0  | 0.0  | 0.0  | 26.0 | 0.6  | 0.0  | 34.5  |              |
| 2.1   | 33 | 0.0  | 0.0  | 0.0  | 0.6  | 16.4 | 0.0  | 0.0  | 10.0  |              |
| 2.4   | 34 | 0.3  | 0.3  | 0.0  | 1.6  | 25.4 | 3.8  | 0.0  | 30.4  |              |
| 3.0   | 3  | 0.0  | 0.3  | 0.0  | 0.6  | 4.78 | 0.3  | 0.0  | 7.7   |              |
| 3.1   | 35 | 0.0  | 0.0  | 0.0  | 2.2  | 51.0 | 3.9  | 0.0  | 28.8  |              |
| 3.5   | 36 | 0.0  | 0.0  | 0.0  | 14.9 | 3.9  | 0.0  | 75.9 | 0.0   |              |
| 4.1   | 37 | 0.0  | 0.3  | 0.3  | 1.7  | 11.4 | 0.0  | 0.0  | 31.6  |              |
| 4.2   | 38 | 0.3  | 0.0  | 0.0  | 4.2  | 50.8 | 4.5  | 0.0  | 27.2  | 3850+/- 80   |
| 4.3   | 39 | 0.0  | 0.3  | 0.0  | 3.2  | 52.5 | 0.0  | 0.0  | 31.3  |              |
| 4.6   | 40 | 0.0  | 0.0  | 0.0  | 0.0  | 8.9  | 0.0  | 0.0  | 8.0   | 4480+/- 70   |
| 4.7   | 41 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5   | 17900+/- 220 |
| 5.2   | 4  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 1.2   |              |
| 5.3   | 42 | 0.0  | 0.0  | 0.0  | 0.0  | 6.3  | 0.3  | 0.0  | 5.3   |              |
| 5.5   | 43 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 1.9   |              |
| 5.7   | 44 | 0.0  | 0.0  | 0.0  | 0.0  | 2.2  | 0.0  | 0.0  | 1.6   |              |
| 5.9   | 45 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.1   |              |
| 6.1   | 5  | 0.0  | 0.0  | 0.0  | 0.6  | 1.8  | 0.3  | 0.0  | 4.0   |              |
| 6.2   | 46 | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 2.6   |              |
| 6.6   | 47 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9   |              |
| 7.0   | 48 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.6   |              |
| 7.6   | 6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 7.6   |              |
| 8.0   | 7  | 0.0  | 0.3  | 0.0  | 0.9  | 1.8  | 0.3  | 0.0  | 4.8   |              |
| 10.0  | 8  | 0.0  | 0.6  | 0.0  | 0.0  | 1.8  | 0.6  | 0.0  | 6.9   |              |
| 11.0  | 9  | 0.2  | 0.0  | 0.0  | 0.0  | 0.7  | 0.2  | 0.0  | 25.06 |              |
| 13.0  | 10 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 8.2   |              |
| 14.4  | 11 | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 7.2   |              |
| 16.0  | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 0.2  | 0.0  | 4.0   |              |



## APPENDIX 2.—Continued.

## CORE S79

| DEPTH | NO | GSHW | GSHF | PSHW | PSHF | SHLO | OSTR | ECHN | CARBT | CARBON-14 |
|-------|----|------|------|------|------|------|------|------|-------|-----------|
| 17.5  | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 8.2   |           |
| 19.0  | 14 | 0.0  | 0.0  | 0.6  | 0.3  | 1.5  | 0.0  | 0.0  | 6.3   |           |
| 20.5  | 15 | 0.0  | 0.0  | 0.0  | 1.3  | 2.2  | 0.3  | 0.0  | 8.9   |           |
| 22.0  | 16 | 0.0  | 0.0  | 0.0  | 0.8  | 2.2  | 0.0  | 0.3  | 8.1   |           |
| 23.6  | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 6.2   |           |
| 25.5  | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.6  | 0.0  | 11.4  |           |
| 26.5  | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 3.6  | 0.3  | 0.0  | 26.3  |           |
| 28.5  | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  | 0.0  | 25.1  |           |
| 29.3  | 27 | 0.0  | 0.0  | 0.0  | 0.6  | 1.3  | 0.9  | 0.0  | 19.9  |           |
| 30.0  | 21 | 0.0  | 0.0  | 0.0  | 0.3  | 2.3  | 0.0  | 0.0  | 38.9  |           |
| 31.5  | 22 | 0.0  | 0.0  | 0.0  | 0.6  | 1.2  | 0.0  | 0.0  | 31.2  |           |
| 33.2  | 23 | 0.0  | 0.0  | 0.0  | 0.3  | 1.5  | 0.0  | 0.0  | 23.7  |           |
| 35.0  | 24 | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 23.7  |           |
| 36.0  | 25 | 0.0  | 0.6  | 0.0  | 0.3  | 2.1  | 0.0  | 0.0  | 25.1  |           |
| 38.0  | 26 | 0.0  | 0.0  | 0.0  | 0.3  | 2.2  | 0.3  | 0.0  | 26.0  |           |
| 41.0  | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 2.1  | 0.0  | 0.0  | 32.6  |           |
| 42.5  | 29 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  | 54.4  |           |

## APPENDIX 2.—Continued.

## CORE S80

| DEPTH | NO   | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | GYP  | LITH | AGG  | PLTM | FORB |
|-------|------|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|
| 0.0   | surf | --    | --    | --    | 14.8 | 0.5 | 0.7  | 0.0  | 0.0  | 37.9 | 0.0  | 11.1 | 0.0  | 5.5  |
| 0.3   | 34   | 59.51 | 25.59 | 14.90 | 56.1 | 1.8 | 0.0  | 0.0  | 0.0  | 2.1  | 0.0  | 0.3  | 0.0  | 1.2  |
| 0.8   | 35   | 71.54 | 16.69 | 11.77 | 46.4 | 0.6 | 0.0  | 0.0  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 0.9  |
| 1.5   | 1    | 64.15 | 23.33 | 12.51 | 21.2 | 0.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  |
| 2.0   | 2    | --    | --    | --    | 23.5 | 0.9 | 0.9  | 0.0  | 0.0  | 14.5 | 0.0  | 5.2  | 0.0  | 2.9  |
| 5.0   | 4    | --    | --    | --    | 31.9 | 0.0 | 0.0  | 1.2  | 0.0  | 23.6 | 0.0  | 4.5  | 0.0  | 0.3  |
| 6.2   | 36   | 37.60 | 35.40 | 27.00 | 61.3 | 3.5 | 0.6  | 0.3  | 0.0  | 5.8  | 0.0  | 1.7  | 0.0  | 2.3  |
| 6.6   | 37   | 82.12 | 5.50  | 12.38 | 25.8 | 0.3 | 0.0  | 0.0  | 0.0  | 6.5  | 0.0  | 2.7  | 0.0  | 0.9  |
| 6.7   | 38   | 25.00 | 52.37 | 22.63 | 84.9 | 4.1 | 5.6  | 0.0  | 1.9  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  |
| 6.8   | 5    | 48.96 | 20.45 | 30.59 | 30.4 | 3.0 | 0.0  | 0.3  | 0.0  | 32.1 | 0.0  | 5.2  | 0.3  | 0.0  |
| 7.0   | 3    | 40.14 | 40.68 | 19.17 | 83.0 | 2.9 | 2.6  | 0.0  | 0.0  | 2.3  | 0.0  | 0.0  | 0.0  | 1.0  |
| 7.1   | 39   | 29.19 | 41.46 | 29.35 | 88.7 | 0.9 | 0.0  | 0.0  | 0.0  | 3.8  | 0.0  | 0.3  | 0.3  | 0.0  |
| 7.3   | 40   | 15.04 | 26.22 | 58.74 | 92.4 | 2.7 | 0.0  | 0.0  | 0.0  | 3.6  | 1.2  | 0.0  | 0.0  | 0.0  |
| 7.6   | 6    | --    | --    | --    | 85.8 | 2.5 | 0.0  | 0.0  | 0.0  | 0.6  | 0.6  | 0.3  | 0.0  | 0.0  |
| 7.8   | 41   | 20.56 | 25.52 | 53.92 | 94.3 | 2.8 | 0.0  | 0.0  | 0.3  | 1.3  | 0.0  | 0.3  | 0.0  | 0.0  |
| 8.2   | 7    | --    | --    | --    | 98.0 | 1.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 8.5   | 8    | --    | --    | --    | 71.8 | 1.1 | 0.0  | 0.0  | 0.0  | 11.7 | 0.8  | 1.1  | 0.0  | 0.0  |
| 10.0  | 9    | --    | --    | --    | 50.5 | 1.7 | 0.0  | 0.0  | 0.0  | 23.8 | 4.7  | 0.0  | 0.0  | 0.0  |
| 11.0  | 10   | --    | --    | --    | 17.8 | 1.9 | 0.3  | 0.3  | 0.0  | 32.2 | 0.3  | 1.9  | 0.0  | 0.0  |
| 11.7  | 11   | --    | --    | --    | 24.8 | 1.1 | 0.0  | 0.0  | 0.0  | 24.3 | 0.6  | 2.0  | 0.0  | 0.3  |
| 13.0  | 12   | --    | --    | --    | 44.3 | 1.4 | 0.3  | 0.0  | 0.0  | 29.0 | 2.0  | 3.5  | 0.0  | 0.3  |
| 14.0  | 13   | --    | --    | --    | 34.6 | 3.9 | 0.0  | 0.0  | 0.3  | 42.4 | 2.8  | 2.2  | 0.0  | 0.0  |
| 16.0  | 14   | --    | --    | --    | 38.5 | 3.2 | 0.3  | 0.0  | 0.0  | 42.9 | 3.2  | 0.9  | 0.0  | 0.0  |
| 17.0  | 15   | --    | --    | --    | 38.9 | 3.8 | 0.7  | 0.2  | 0.0  | 39.9 | 6.2  | 0.5  | 0.0  | 0.0  |
| 19.0  | 16   | --    | --    | --    | 43.4 | 3.4 | 0.3  | 0.9  | 0.0  | 42.5 | 1.5  | 1.2  | 0.0  | 0.0  |
| 20.5  | 17   | --    | --    | --    | 45.7 | 4.9 | 0.0  | 0.0  | 0.0  | 32.8 | 3.2  | 1.4  | 0.0  | 0.0  |
| 22.0  | 18   | --    | --    | --    | 73.6 | 6.9 | 0.3  | 0.6  | 0.3  | 5.1  | 3.0  | 0.0  | 0.0  | 0.0  |
| 23.5  | 19   | --    | --    | --    | 76.5 | 3.4 | 0.0  | 0.0  | 0.0  | 8.1  | 5.0  | 0.0  | 0.0  | 0.0  |
| 25.0  | 20   | --    | --    | --    | 71.2 | 3.1 | 0.3  | 0.0  | 0.0  | 11.4 | 2.8  | 0.3  | 0.0  | 0.0  |
| 26.5  | 21   | --    | --    | --    | 74.8 | 6.7 | 0.5  | 0.0  | 0.0  | 6.9  | 1.5  | 0.0  | 0.0  | 0.0  |
| 28.0  | 22   | --    | --    | --    | 72.2 | 2.1 | 0.0  | 0.0  | 0.0  | 4.8  | 4.2  | 0.3  | 0.0  | 0.3  |



## APPENDIX 2.—Continued.

| CORE S80 |      |      |      |      |      |      |      |      |       |  |
|----------|------|------|------|------|------|------|------|------|-------|--|
| DEPTH    | NO   | GSHW | GSHF | PSHF | SHLO | OSTR | SPNG | BRYO | CARBT | CARBON-14  |
| 0.0      | surf | 0.0  | 0.0  | 0.0  | 13.6 | 1.0  | 0.0  | 0.0  | 14.8  | 3530+/- 60<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><b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|

| DEPTH | NO | GSHW | GSHF | PSHF | SHLO | OSTR | SPNG | BRYO | CARBT | CARBON-14 |
|-------|----|------|------|------|------|------|------|------|-------|-----------|
| 29.5  | 23 | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 11.3  |           |
| 31.5  | 24 | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 9.5   |           |
| 32.0  | 25 | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 7.4   |           |
| 34.0  | 26 | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 11.0  |           |
| 35.5  | 27 | 0.0  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 10.2  |           |
| 37.0  | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.7   |           |
| 38.0  | 29 | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 12.1  |           |
| 40.0  | 30 | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 13.5  |           |
| 41.5  | 31 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 9.4   |           |
| 43.5  | 32 | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 6.5   |           |
| 44.0  | 33 | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 11.6  |           |



## APPENDIX 2.—Continued.

| CORE S81 |     | DEPTH | NO    | SAND  | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | GYP  | LITH | AGG  | PLTM | FORB |
|----------|-----|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|------|
| 0.0      | 1   | --    | --    | --    | --   | --   | 29.2 | 2.1 | 0.3  | 0.0  | 0.0  | 13.3 | 0.0  | 14.7 | 0.0  | 0.6  |
| 1.5      | 2   | 9.43  | 35.56 | 55.01 | 16.5 | 0.0  | 16.5 | 0.6 | 0.0  | 0.0  | 0.3  | 0.0  | 0.3  | 0.3  | 0.6  | 0.6  |
| 1.6      | 21  | 23.88 | 46.04 | 30.08 | 24.3 | 0.0  | 24.3 | 0.9 | 0.0  | 0.0  | 0.0  | 4.1  | 0.0  | 2.6  | 0.3  | 1.5  |
| 1.8      | 22  | --    | --    | --    | 83.0 | 0.0  | 83.0 | 2.1 | 0.0  | 0.0  | 0.0  | 8.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.2      | 23  | 58.53 | 22.03 | 19.43 | 94.6 | 0.0  | 94.6 | 3.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  |
| 2.6      | 24  | 73.91 | 16.49 | 9.60  | 61.0 | 0.0  | 61.0 | 4.3 | 0.0  | 0.0  | 0.0  | 8.0  | 0.3  | 4.3  | 0.0  | 0.0  |
| 3.0      | 3   | 58.47 | 16.98 | 24.55 | 72.0 | 0.0  | 72.0 | 3.9 | 0.0  | 0.0  | 0.0  | 18.4 | 0.0  | 0.3  | 0.0  | 0.0  |
| 3.2      | 25  | 49.20 | 26.34 | 24.45 | 73.0 | 0.0  | 73.0 | 4.1 | 0.0  | 0.0  | 0.0  | 13.8 | 1.6  | 0.6  | 0.0  | 0.0  |
| 3.4      | 26  | 66.06 | 15.87 | 18.08 | 76.9 | 0.0  | 76.9 | 5.8 | 0.6  | 0.0  | 0.0  | 10.5 | 0.0  | 0.6  | 0.0  | 0.0  |
| 3.6      | 4   | 55.03 | 21.54 | 23.43 | 84.3 | 0.0  | 84.3 | 4.3 | 0.6  | 0.0  | 0.0  | 7.1  | 0.0  | 0.3  | 0.0  | 0.0  |
| 5.2      | 6   | --    | --    | --    | 78.4 | 0.0  | 78.4 | 3.2 | 0.6  | 0.9  | 7.5  | 0.3  | 2.9  | 0.0  | 0.0  | 0.0  |
| 5.6      | 27  | 30.78 | 31.14 | 38.08 | 40.0 | 0.3  | 40.0 | 1.5 | 0.3  | 0.3  | 6.6  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.0      | 28  | 36.22 | 27.10 | 36.67 | 80.8 | 0.0  | 80.8 | 6.2 | 0.0  | 0.0  | 0.0  | 5.3  | 0.0  | 1.5  | 0.0  | 0.0  |
| 6.3      | 29  | 11.31 | 12.98 | 75.70 | 84.7 | 0.0  | 84.7 | 2.1 | 0.0  | 0.0  | 0.0  | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 6.5      | 5   | --    | --    | --    | 80.7 | 0.0  | 80.7 | 5.6 | 0.9  | 0.0  | 0.0  | 6.0  | 0.6  | 2.3  | 0.0  | 0.0  |
| 6.5      | 30  | 80.89 | 7.40  | 11.71 | 82.9 | 0.0  | 82.9 | 3.4 | 0.0  | 0.6  | 0.0  | 10.0 | 0.3  | 0.0  | 0.0  | 0.0  |
| 6.7      | 31  | 70.37 | 15.43 | 14.20 | 85.6 | 0.0  | 85.6 | 1.8 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.0      | 7   | 70.73 | 16.91 | 12.36 | 73.0 | 0.0  | 73.0 | 2.6 | 0.0  | 0.0  | 0.0  | 5.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 7.5      | 8   | --    | --    | --    | 69.2 | 0.0  | 69.2 | 3.9 | 0.3  | 1.8  | 0.0  | 9.9  | 0.9  | 0.3  | 0.0  | 0.0  |
| 9.0      | 9   | --    | --    | --    | 65.3 | 0.0  | 65.3 | 4.7 | 0.6  | 0.0  | 0.0  | 11.2 | 0.6  | 1.8  | 0.0  | 0.0  |
| 9.7      | 32  | 26.67 | 30.70 | 42.63 | 71.7 | 0.0  | 71.7 | 2.9 | 0.0  | 0.0  | 0.0  | 8.4  | 0.9  | 0.0  | 0.0  | 0.0  |
| 9.8      | 34  | 19.97 | 30.34 | 49.69 | 85.1 | 0.0  | 85.1 | 3.1 | 0.0  | 0.0  | 0.0  | 5.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10.6     | 10  | 29.14 | 17.22 | 53.63 | 65.4 | 0.6  | 65.4 | 5.1 | 0.6  | 0.9  | 0.0  | 17.3 | 0.9  | 0.0  | 0.0  | 0.9  |
| 10.8     | 35  | 19.65 | 27.14 | 53.21 | 73.6 | 0.3  | 73.6 | 5.1 | 0.3  | 0.3  | 0.0  | 11.8 | 0.3  | 0.0  | 0.0  | 1.2  |
| 10.9     | 36  | 28.81 | 35.81 | 35.38 | 36.3 | 0.0  | 36.3 | 1.2 | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 7.5  |
| 11.0     | 37A | 23.47 | 16.72 | 59.80 | 19.5 | 0.0  | 19.5 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.8  | 0.0  | 23.2 |
| 11.5     | 11  | 16.48 | 19.50 | 64.02 | 94.0 | 0.0  | 94.0 | 1.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  |
| 11.7     | 37B | 18.15 | 30.93 | 50.92 | 89.6 | 0.0  | 89.6 | 2.3 | 0.0  | 0.0  | 0.0  | 1.0  | 0.3  | 0.0  | 0.0  | 0.3  |
| 11.8     | 38  | 61.98 | 18.17 | 19.85 | 82.2 | 0.0  | 82.2 | 3.3 | 0.0  | 0.3  | 0.0  | 5.0  | 0.3  | 0.0  | 0.0  | 0.0  |
| 11.9     | 39  | 23.41 | 57.98 | 18.61 | 57.6 | 0.0  | 57.6 | 1.8 | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12.1     | 40  | 28.59 | 40.39 | 31.02 | 76.8 | 0.0  | 76.8 | 1.1 | 0.3  | 0.0  | 0.0  | 2.5  | 0.0  | 1.1  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S81

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PVRT | GYP  | LITH | AGG  | PLTM | FORB |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|
| 12.2  | 41 | 32.66 | 27.41 | 39.92 | 51.8 | 1.8 | 0.0  | 0.0  | 0.0  | 7.4  | 0.0  | 3.2  | 0.0  | 0.0  |
| 12.3  | 42 | --    | --    | --    | 70.7 | 1.6 | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 10.1 | 0.0  | 0.0  |
| 12.3  | 12 | 58.12 | 21.50 | 20.38 | 75.6 | 2.0 | 0.0  | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12.4  | 43 | 65.11 | 18.26 | 16.63 | 83.7 | 2.6 | 0.0  | 0.0  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 12.5  | 44 | 63.27 | 16.15 | 20.58 | 80.9 | 1.6 | 0.3  | 0.0  | 0.0  | 10.9 | 0.0  | 0.3  | 0.0  | 0.0  |
| 12.7  | 45 | --    | --    | --    | 90.4 | 0.9 | 0.0  | 0.0  | 0.0  | 0.0  | 4.5  | 0.0  | 0.0  | 0.0  |
| 12.9  | 46 | --    | --    | --    | 84.9 | 0.6 | 0.3  | 0.0  | 0.0  | 1.3  | 0.0  | 0.3  | 0.0  | 0.0  |
| 13.2  | 13 | 41.12 | 25.60 | 33.28 | 75.4 | 3.7 | 0.0  | 0.6  | 0.0  | 16.5 | 0.0  | 0.9  | 0.0  | 0.0  |
| 13.3  | 47 | 28.36 | 35.82 | 35.82 | 84.7 | 2.2 | 0.0  | 0.0  | 0.0  | 12.5 | 0.0  | 0.6  | 0.0  | 0.0  |
| 13.8  | 49 | 54.62 | 23.95 | 21.43 | 61.4 | 0.6 | 0.0  | 0.0  | 0.0  | 1.6  | 0.0  | 0.0  | 0.0  | 0.0  |
| 14.0  | 15 | 43.45 | 31.24 | 25.32 | 50.6 | 1.6 | 0.0  | 0.0  | 0.0  | 11.5 | 0.0  | 1.0  | 0.0  | 0.0  |
| 14.2  | 50 | 72.64 | 16.04 | 11.32 | 66.6 | 0.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  |
| 14.9  | 16 | 70.34 | 12.86 | 16.80 | 75.7 | 3.1 | 0.0  | 0.0  | 0.0  | 5.6  | 1.2  | 0.6  | 0.0  | 0.0  |
| 16.0  | 17 | --    | --    | --    | 66.6 | 3.8 | 0.6  | 0.3  | 0.0  | 12.6 | 0.6  | 0.0  | 0.0  | 0.0  |
| 17.0  | 18 | --    | --    | --    | 64.8 | 1.8 | 0.0  | 0.0  | 0.0  | 13.7 | 1.5  | 1.8  | 0.0  | 0.0  |
| 19.0  | 19 | --    | --    | --    | 71.9 | 1.2 | 0.0  | 0.3  | 0.0  | 10.5 | 0.0  | 0.9  | 0.0  | 0.0  |
| 20.5  | 20 | 37.17 | 23.73 | 39.10 | 67.3 | 1.5 | 0.0  | 0.0  | 0.0  | 9.8  | 0.0  | 0.6  | 0.0  | 0.0  |

## APPENDIX 2.—Continued.

## CORE S81

| DEPTH | NO  | PSHF | SHLO | OSTR | BRYO | CARBT | CARBON-14      |
|-------|-----|------|------|------|------|-------|----------------|
| 0.0   | 1   | 0.9  | 15.9 | 0.0  | 0.0  | 23.0  |                |
| 1.5   | 2   | 0.0  | 29.9 | 3.1  | 0.0  | 47.7  |                |
| 1.6   | 21  | 0.0  | 9.9  | 1.2  | 0.0  | 55.2  | 1,350+/- 80    |
| 1.8   | 22  | 0.0  | 0.0  | 0.0  | 0.0  | 6.1   |                |
| 2.2   | 23  | 0.0  | 0.0  | 0.0  | 0.0  | 2.1   |                |
| 2.6   | 24  | 0.0  | 0.3  | 0.0  | 0.0  | 21.8  | 19,630+/- 140  |
| 3.0   | 3   | 0.0  | 0.3  | 0.0  | 0.0  | 5.1   |                |
| 3.2   | 25  | 0.0  | 0.0  | 0.0  | 0.0  | 6.9   | 28,200+/- 460  |
| 3.4   | 26  | 0.0  | 0.3  | 0.0  | 0.0  | 5.2   |                |
| 3.6   | 4   | 0.0  | 1.2  | 0.0  | 0.0  | 2.1   |                |
| 5.2   | 6   | 0.0  | 0.6  | 0.3  | 0.0  | 5.5   |                |
| 5.6   | 27  | 0.0  | 0.0  | 0.0  | 0.0  | 51.0  | 29,480 +/- 330 |
| 6.0   | 28  | 0.0  | 0.3  | 0.0  | 0.0  | 5.9   |                |
| 6.3   | 29  | 0.0  | 0.9  | 0.0  | 0.0  | 8.8   |                |
| 6.5   | 5   | 0.3  | 0.0  | 0.0  | 0.0  | 0.0   |                |
| 6.5   | 30  | 0.0  | 0.0  | 0.0  | 0.6  | 2.8   |                |
| 6.7   | 31  | 0.0  | 0.0  | 0.0  | 0.0  | 9.0   |                |
| 7.0   | 7   | 0.0  | 0.0  | 0.0  | 0.0  | 18.9  |                |
| 7.5   | 8   | 0.0  | 0.0  | 0.0  | 0.0  | 13.8  |                |
| 9.0   | 9   | 0.0  | 0.0  | 0.0  | 0.0  | 15.9  |                |
| 9.7   | 32  | 0.0  | 0.0  | 0.0  | 0.0  | 16.2  |                |
| 9.8   | 34  | 0.0  | 0.9  | 0.0  | 0.0  | 5.9   |                |
| 10.6  | 10  | 0.0  | 0.0  | 0.0  | 0.0  | 8.8   |                |
| 10.8  | 35  | 0.0  | 0.3  | 0.0  | 0.0  | 7.0   |                |
| 10.9  | 36  | 0.0  | 16.1 | 1.7  | 0.0  | 35.7  |                |
| 11.0  | 37A | 0.0  | 51.1 | 2.7  | 0.0  | 2.7   | >38,000        |
| 11.5  | 11  | 0.0  | 2.5  | 0.0  | 0.0  | 1.2   |                |
| 11.7  | 37B | 0.0  | 1.0  | 0.0  | 0.0  | 5.5   |                |
| 11.8  | 38  | 0.0  | 0.0  | 0.0  | 0.3  | 8.6   |                |
| 11.9  | 39  | 0.0  | 2.3  | 0.3  | 0.0  | 37.1  |                |
| 12.1  | 40  | 0.0  | 0.6  | 0.6  | 0.0  | 16.9  |                |

## APPENDIX 2.—Continued.

## CORE S81

| DEPTH | NO | PSHF | SHLO | OSTR | BRYO | CARBT | CARBON-14 |
|-------|----|------|------|------|------|-------|-----------|
| 12.2  | 41 | 0.0  | 0.0  | 0.0  | 0.0  | 35.8  |           |
| 12.3  | 42 | 0.0  | 0.3  | 0.0  | 0.0  | 17.0  |           |
| 12.3  | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 18.7  |           |
| 12.4  | 43 | 0.0  | 0.0  | 0.0  | 0.0  | 10.1  |           |
| 12.5  | 44 | 0.0  | 0.0  | 0.0  | 0.0  | 5.9   |           |
| 12.7  | 45 | 0.0  | 0.0  | 0.0  | 0.0  | 4.2   |           |
| 12.9  | 46 | 0.0  | 0.0  | 0.0  | 0.0  | 12.5  |           |
| 13.2  | 13 | 0.0  | 0.0  | 0.0  | 0.0  | 2.8   |           |
| 13.3  | 47 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   |           |
| 13.8  | 49 | 0.0  | 0.0  | 0.0  | 0.0  | 36.4  |           |
| 14.0  | 15 | 0.0  | 0.0  | 0.0  | 0.0  | 35.3  |           |
| 14.2  | 50 | 0.0  | 0.0  | 0.0  | 0.0  | 32.2  |           |
| 14.9  | 16 | 0.0  | 0.3  | 0.0  | 0.0  | 13.4  |           |
| 16.0  | 17 | 0.0  | 0.0  | 0.0  | 0.0  | 15.5  |           |
| 17.0  | 18 | 0.0  | 0.0  | 0.0  | 0.0  | 16.4  |           |
| 19.0  | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 15.1  |           |
| 20.5  | 20 | 0.0  | 0.0  | 0.0  | 0.0  | 20.8  |           |

## APPENDIX 2.—Continued.

| CORE S82 |    | DEPTH | NO    | SAND  | SILT | CLAY | LT   | HVY | MICA | GLAU | PYRT | GYP  | LITH | AGG  | PLTM | FORB | FORP |
|----------|----|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 0.0      | 1  | --    | --    | --    | --   | --   | 20.8 | 0.0 | 0.0  | 0.0  | 0.0  | 7.3  | 0.0  | 16.8 | 2.1  | 0.0  | 0.0  |
| 0.2      | 23 | 49.20 | 24.89 | 25.91 | 78.5 | 4.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 1.2  | 1.2  | 0.0  | 0.6  | 0.0  |
| 0.75     | 2  | --    | --    | --    | 62.7 | 3.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 10.2 | 0.6  | 1.2  | 0.0  | 0.0  | 0.0  |
| 2.2      | 24 | 54.99 | 34.69 | 10.31 | 80.6 | 0.5  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  | 18.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.7      | 25 | 56.41 | 22.33 | 21.26 | 2.2  | 0.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 3.1  | 0.0  | 9.3  | 0.3  |
| 3.1      | 26 | 30.60 | 31.77 | 37.62 | 37.8 | 0.0  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 1.1  | 0.0  | 0.0  | 0.0  | 6.9  | 0.0  |
| 3.3      | 27 | 12.89 | 38.78 | 48.33 | 92.0 | 1.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.7  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  |
| 3.4      | 28 | 60.17 | 21.28 | 18.54 | 91.2 | 4.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 3.6      | 29 | 33.23 | 43.42 | 23.34 | 20.2 | 0.3  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  |
| 4.0      | 4  | 13.39 | 33.76 | 52.85 | 79.9 | 1.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 10.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.1      | 30 | 12.60 | 30.54 | 56.85 | 88.3 | 2.5  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 4.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.4      | 31 | 77.33 | 8.34  | 14.34 | 85.8 | 3.4  | 0.9  | 0.0 | 0.0  | 0.0  | 0.0  | 8.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.7      | 32 | 29.62 | 22.81 | 47.57 | 78.9 | 3.1  | 1.2  | 0.0 | 0.0  | 0.0  | 0.0  | 14.7 | 0.6  | 0.0  | 0.3  | 0.0  | 0.0  |
| 4.75     | 33 | 81.74 | 5.62  | 12.64 | 96.6 | 2.5  | 0.3  | 0.0 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.2      | 5  | 64.41 | 14.94 | 20.65 | 92.9 | 0.9  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5.5      | 6  | --    | --    | --    | 80.3 | 3.9  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  | 8.2  | 1.5  | 0.9  | 0.0  | 0.0  | 0.0  |
| 7.0      | 7  | --    | --    | --    | 75.7 | 2.6  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  | 12.0 | 1.2  | 0.3  | 0.0  | 0.0  | 0.0  |
| 8.0      | 8  | --    | --    | --    | 75.0 | 1.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 6.7  | 0.3  | 1.9  | 0.0  | 0.0  | 0.0  |
| 10.0     | 9  | --    | --    | --    | 72.0 | 1.2  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 12.1 | 0.3  | 0.9  | 0.0  | 0.0  | 0.0  |
| 11.0     | 10 | --    | --    | --    | 69.5 | 2.7  | 0.6  | 0.0 | 0.0  | 0.0  | 0.0  | 11.5 | 1.1  | 2.9  | 0.0  | 0.0  | 0.0  |
| 13.0     | 11 | --    | --    | --    | 71.7 | 2.4  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 8.1  | 0.3  | 3.5  | 0.0  | 0.0  | 0.0  |
| 14.0     | 12 | --    | --    | --    | 53.8 | 1.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 13.4 | 0.6  | 4.6  | 0.0  | 0.6  | 0.0  |
| 16.0     | 13 | --    | --    | --    | 51.2 | 1.9  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  | 12.1 | 0.3  | 3.0  | 0.0  | 1.6  | 0.0  |
| 17.0     | 14 | --    | --    | --    | 47.1 | 0.9  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 3.2  | 0.3  | 4.7  | 0.0  | 0.6  | 0.0  |
| 19.0     | 15 | --    | --    | --    | 42.2 | 2.1  | 0.7  | 0.0 | 0.0  | 0.0  | 0.0  | 8.9  | 0.3  | 2.3  | 0.3  | 0.9  | 0.0  |
| 20.0     | 16 | --    | --    | --    | 44.5 | 1.2  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  | 16.8 | 0.0  | 3.5  | 0.0  | 0.3  | 0.0  |
| 22.0     | 17 | --    | --    | --    | 43.3 | 2.2  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  | 16.4 | 1.1  | 3.3  | 0.0  | 0.3  | 0.0  |
| 23.5     | 18 | --    | --    | --    | 40.3 | 1.1  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  | 15.7 | 0.0  | 3.9  | 0.0  | 1.4  | 0.0  |
| 25.0     | 19 | --    | --    | --    | 53.0 | 2.8  | 0.8  | 0.3 | 0.0  | 0.0  | 0.0  | 14.8 | 0.0  | 4.6  | 0.0  | 0.9  | 0.0  |
| 26.5     | 20 | --    | --    | --    | 51.3 | 1.1  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 15.9 | 0.0  | 3.0  | 0.0  | 0.6  | 0.0  |
| 28.0     | 21 | --    | --    | --    | 56.2 | 3.8  | 0.0  | 0.0 | 0.0  | 0.0  | 0.0  | 12.4 | 0.6  | 0.9  | 0.0  | 0.9  | 0.0  |
| 29.0     | 22 | --    | --    | --    | 54.2 | 3.1  | 0.3  | 0.0 | 0.0  | 0.0  | 0.0  | 16.2 | 0.0  | 2.0  | 0.0  | 0.3  | 0.0  |



## APPENDIX 2.—Continued.

## CORE S82

| DEPTH | NO | GSHW | GSHF | PSHF | SHLO | OSTR | ECHN | CARBT | CARBON-14    |
|-------|----|------|------|------|------|------|------|-------|--------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.6  | 19.0 | 2.4  | 0.0  | 30.9  |              |
| 0.2   | 23 | 0.0  | 0.0  | 0.0  | 1.9  | 0.3  | 0.0  | 12.0  |              |
| 0.75  | 2  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 21.2  |              |
| 2.2   | 24 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0   |              |
| 2.7   | 25 | 0.9  | 0.6  | 8.2  | 60.6 | 6.5  | 0.0  | 7.9   |              |
| 3.1   | 26 | 0.0  | 0.0  | 2.9  | 30.9 | 1.4  | 0.0  | 18.9  | 5050 +/- 70  |
| 3.3   | 27 | 0.0  | 0.0  | 0.3  | 0.6  | 0.0  | 0.0  | 0.9   | 5850 +/- 150 |
| 3.4   | 28 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6   |              |
| 3.6   | 29 | 0.0  | 0.0  | 0.0  | 0.6  | 0.3  | 0.0  | 75.2  |              |
| 4.0   | 4  | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 6.7   |              |
| 4.1   | 30 | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 4.6   |              |
| 4.4   | 31 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9   |              |
| 4.7   | 32 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.9   |              |
| 4.75  | 33 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3   |              |
| 5.2   | 5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.8   |              |
| 5.5   | 6  | 0.0  | 0.0  | 0.6  | 2.1  | 0.0  | 0.0  | 1.8   |              |
| 7.0   | 7  | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 6.7   |              |
| 8.0   | 8  | 0.0  | 0.0  | 0.6  | 0.3  | 0.0  | 0.0  | 13.9  |              |
| 10.0  | 9  | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 13.3  |              |
| 11.0  | 10 | 0.0  | 0.0  | 0.8  | 1.1  | 0.0  | 0.0  | 9.4   |              |
| 13.0  | 11 | 0.3  | 0.0  | 0.3  | 0.3  | 0.0  | 0.0  | 13.0  |              |
| 14.0  | 12 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 24.9  |              |
| 16.0  | 13 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 29.1  |              |
| 17.0  | 14 | 0.0  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 42.7  |              |
| 19.0  | 15 | 0.0  | 0.0  | 0.0  | 0.7  | 0.0  | 0.0  | 41.7  |              |
| 20.0  | 16 | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 32.4  |              |
| 22.0  | 17 | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 32.5  |              |
| 23.5  | 18 | 0.0  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 36.4  |              |
| 25.0  | 19 | 0.0  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 21.9  |              |
| 26.5  | 20 | 0.0  | 0.0  | 0.0  | 0.8  | 0.0  | 0.0  | 27.3  |              |
| 28.0  | 21 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25.2  |              |
| 29.0  | 22 | 0.0  | 0.0  | 0.0  | 23.7 | 0.0  | 0.0  | 0.0   |              |

## APPENDIX 2.—Continued.

## CORE S83

| DEPTH | NO  | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PYRT | GYP  | LITH | AGG  | PLTM | FORB |
|-------|-----|-------|-------|-------|------|-----|------|------|------|------|------|------|------|------|
| 0.0   | 1   | 38.16 | 22.88 | 38.95 | 2.5  | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | 0.3  |
| 0.6   | 22A | --    | --    | --    | 1.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.1 | 0.6  | 0.6  |
| 1.2   | 23A | --    | --    | --    | 7.9  | 0.0 | 0.0  | 0.0  | 0.0  | 2.3  | 0.0  | 1.4  | 0.0  | 0.9  |
| 1.2   | 2   | 45.42 | 31.55 | 23.03 | 4.6  | 0.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  |
| 2.0   | 3   | --    | --    | --    | 7.4  | 0.0 | 0.3  | 0.0  | 0.0  | 1.9  | 0.3  | 0.6  | 0.0  | 0.0  |
| 3.1   | 24  | 34.92 | 36.55 | 28.53 | 6.2  | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.7  | 0.0  | 1.2  |
| 3.5   | 25  | 2.62  | 38.43 | 58.95 | 69.3 | 2.6 | 0.3  | 0.0  | 0.0  | 3.8  | 0.3  | 3.5  | 8.4  | 0.0  |
| 4.0   | 26  | 39.41 | 32.00 | 28.60 | 86.2 | 5.6 | 0.6  | 0.0  | 0.0  | 0.9  | 0.0  | 0.3  | 0.3  | 1.8  |
| 4.1   | 27  | 58.20 | 24.61 | 17.20 | 68.1 | 2.1 | 0.0  | 0.6  | 0.0  | 8.1  | 0.0  | 0.3  | 1.2  | 3.0  |
| 4.2   | 28  | 27.14 | 43.04 | 29.81 | 82.2 | 2.6 | 0.0  | 0.0  | 1.7  | 2.6  | 0.3  | 0.3  | 1.1  | 0.9  |
| 4.5   | 29  | 60.43 | 18.94 | 20.63 | 64.3 | 0.0 | 0.0  | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 0.3  |
| 4.57  | 4   | 67.85 | 16.63 | 15.53 | 53.1 | 0.3 | 0.0  | 0.0  | 0.0  | 1.8  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.7   | 30  | 55.24 | 24.20 | 20.56 | 74.0 | 1.6 | 0.3  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 4.8   | 31  | 41.50 | 34.53 | 23.97 | 63.6 | 1.7 | 0.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  |
| 5.0   | 32  | 38.17 | 39.33 | 22.50 | 65.3 | 0.9 | 0.0  | 0.0  | 0.0  | 2.0  | 0.0  | 0.9  | 0.0  | 0.0  |
| 5.3   | 33  | 61.98 | 25.10 | 12.93 | 37.1 | 0.0 | 0.6  | 0.0  | 0.0  | 4.7  | 0.0  | 2.9  | 0.0  | 0.0  |
| 5.5   | 5   | 43.64 | 36.44 | 19.92 | 53.9 | 0.8 | 0.0  | 0.0  | 0.0  | 3.5  | 0.0  | 1.3  | 0.0  | 0.0  |
| 5.5   | 6   | --    | --    | --    | 32.8 | 1.7 | 1.7  | 0.0  | 0.3  | 15.8 | 0.6  | 1.0  | 0.0  | 0.3  |
| 7.0   | 7   | --    | --    | --    | 34.7 | 0.6 | 1.2  | 0.0  | 0.6  | 12.2 | 0.0  | 0.0  | 0.0  | 0.3  |
| 8.0   | 8   | --    | --    | --    | 62.8 | 0.6 | 0.0  | 0.0  | 0.0  | 6.1  | 0.0  | 0.6  | 0.0  | 0.0  |
| 10.0  | 9   | --    | --    | --    | 54.4 | 1.4 | 0.3  | 0.0  | 0.0  | 10.6 | 0.6  | 0.0  | 0.0  | 0.0  |
| 11.0  | 10  | --    | --    | --    | 51.6 | 2.7 | 1.1  | 0.0  | 0.0  | 5.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 13.0  | 11  | --    | --    | --    | 43.5 | 0.6 | 0.8  | 0.0  | 0.0  | 3.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 14.0  | 12  | --    | --    | --    | 45.6 | 0.8 | 0.8  | 0.6  | 0.0  | 8.9  | 0.3  | 0.0  | 0.0  | 0.3  |
| 16.0  | 13  | --    | --    | --    | 43.9 | 1.0 | 1.7  | 0.3  | 0.0  | 11.7 | 0.0  | 0.0  | 0.0  | 0.0  |
| 17.0  | 14  | --    | --    | --    | 39.3 | 2.2 | 1.7  | 0.8  | 0.8  | 14.4 | 0.0  | 0.6  | 0.0  | 0.0  |
| 19.0  | 15  | --    | --    | --    | 48.9 | 2.0 | 0.6  | 0.3  | 0.0  | 11.4 | 0.0  | 1.7  | 0.3  | 0.3  |
| 20.5  | 16  | --    | --    | --    | 46.9 | 2.6 | 0.6  | 0.9  | 0.3  | 20.2 | 0.0  | 0.0  | 0.3  | 0.0  |
| 22.0  | 17  | --    | --    | --    | 56.5 | 7.4 | 2.2  | 0.6  | 0.0  | 14.9 | 1.1  | 1.1  | 0.3  | 0.0  |
| 23.5  | 18  | --    | --    | --    | 74.0 | 3.5 | 1.1  | 0.6  | 0.0  | 5.1  | 0.6  | 3.2  | 0.0  | 0.0  |
| 25.0  | 19  | --    | --    | --    | 78.1 | 4.4 | 0.3  | 0.0  | 0.0  | 3.2  | 0.0  | 0.3  | 0.0  | 0.0  |

| DEPTH | NO | SAND  | SILT  | CLAY  | LT   | HVY | MICA | GLAU | PYRT | GYP  | LITH | AGG | PLTM | FORB |
|-------|----|-------|-------|-------|------|-----|------|------|------|------|------|-----|------|------|
| 26.5  | 20 | --    | --    | --    | 70.8 | 3.2 | 0.3  | 0.6  | 0.0  | 11.1 | 0.0  | 1.7 | 0.0  | 0.0  |
| 29.0  | 21 | --    | --    | --    | 68.0 | 3.3 | 1.4  | 0.0  | 0.0  | 5.5  | 0.3  | 0.9 | 0.0  | 0.0  |
| 30.0  | 22 | 68.98 | 10.83 | 20.19 | 69.0 | 4.0 | 1.4  | 0.0  | 0.0  | 10.0 | 0.0  | 0.0 | 0.0  | 0.3  |
| 31.0  | 23 | 48.01 | 26.80 | 25.19 | 66.3 | 3.2 | 0.9  | 0.0  | 0.0  | 5.2  | 0.3  | 2.3 | 0.0  | 0.3  |

**CORE S83**

[illegible]

[illegible]



## APPENDIX 2.—Continued.

| CORE S84 |    | DEPTH | NO    | SAND  | SILT | CLAY | LT  | HVY | MICA | GLAU | PYRT | GYP  | LITH | AGG  | PLTM | FORB | FORP |
|----------|----|-------|-------|-------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|
| 0.0      | 1  | 34.61 | 15.52 | 49.87 | 2.2  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.9  | 19.3 | 0.0  | 0.0  |
| 0.2      | 18 | 31.08 | 61.74 | 7.18  | 8.1  | 0.3  | 0.3 | 0.0 | 0.0  | 0.0  | 0.0  | 9.8  | 0.0  | 8.7  | 9.5  | 0.0  | 0.0  |
| 0.6      | 19 | 32.29 | 47.69 | 20.02 | 17.0 | 0.6  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 13.6 | 0.0  | 28.7 | 0.3  | 0.0  | 0.0  |
| 0.8      | 20 | 35.03 | 24.30 | 40.67 | 16.8 | 1.7  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 1.4  | 0.0  | 2.5  | 0.6  | 7.2  | 0.0  |
| 1.3      | 24 | 42.15 | 33.18 | 24.67 | 6.3  | 0.3  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 3.4  | 0.0  | 0.6  | 0.0  |
| 1.5      | 2  | 42.57 | 44.26 | 13.17 | 80.6 | 0.3  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| 1.6      | 21 | 47.04 | 37.46 | 15.50 | 25.3 | 0.3  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 2.0      | 22 | 40.12 | 41.61 | 18.27 | 27.5 | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.6  | 0.3  | 0.3  | 0.0  |
| 2.1      | 23 | 28.83 | 54.93 | 16.23 | 68.7 | 0.6  | 0.3 | 0.0 | 0.0  | 0.0  | 0.0  | 8.1  | 0.3  | 0.9  | 3.4  | 0.0  | 0.0  |
| 2.4      | 3  | 35.01 | 46.22 | 18.77 | 74.9 | 1.9  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 11.0 | 0.0  | 2.8  | 0.0  | 0.0  | 0.0  |
| 2.8      | 4  | --    | --    | --    | 35.2 | 0.7  | 0.2 | 0.0 | 0.0  | 0.0  | 0.0  | 10.5 | 0.9  | 5.5  | 0.0  | 0.0  | 0.0  |
| 4.0      | 5  | --    | --    | --    | 23.9 | 0.3  | 0.0 | 0.3 | 0.0  | 0.0  | 0.6  | 8.8  | 0.0  | 2.2  | 0.0  | 0.0  | 0.0  |
| 7.0      | 7  | --    | --    | --    | 3.8  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.9  | 0.0  | 6.9  | 0.0  | 0.0  | 0.0  |
| 8.0      | 8  | --    | --    | --    | 3.7  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 1.5  | 0.0  | 4.6  | 0.0  | 0.0  | 0.0  |
| 10.0     | 9  | --    | --    | --    | 1.5  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 1.2  | 0.0  | 3.6  | 0.0  | 0.0  | 0.0  |
| 11.0     | 10 | --    | --    | --    | 3.7  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 4.7  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  |
| 13.0     | 11 | --    | --    | --    | 3.7  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 2.8  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  |
| 14.0     | 12 | --    | --    | --    | 5.1  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 2.4  | 0.0  | 0.9  | 0.0  | 0.0  | 0.0  |
| 16.0     | 13 | --    | --    | --    | 4.3  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 2.6  | 0.0  | 2.6  | 0.0  | 0.6  | 0.0  |
| 17.5     | 14 | --    | --    | --    | 3.3  | 0.0  | 0.0 | 0.6 | 0.0  | 0.0  | 0.0  | 1.9  | 0.0  | 0.8  | 0.0  | 0.0  | 0.0  |
| 19.0     | 15 | --    | --    | --    | 2.6  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 5.6  | 0.0  | 0.9  | 0.0  | 0.3  | 0.0  |
| 20.5     | 16 | --    | --    | --    | 3.9  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 3.9  | 1.5  | 1.2  | 0.0  | 0.9  | 0.0  |
| 22.0     | 17 | --    | --    | --    | 3.9  | 0.0  | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 4.8  | 0.3  | 2.7  | 0.0  | 0.9  | 1.2  |

## APPENDIX 2.—Continued.

## CORE S84

| DEPTH | NO | GSHF | PSHF | SHLO | OSTR | ECHN | BRYO | CARBT | CARBON-14     |
|-------|----|------|------|------|------|------|------|-------|---------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.9  | 0.3  | 0.0  | 0.0  | 76.3  |               |
| 0.2   | 18 | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.0  | 62.8  |               |
| 0.6   | 19 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 39.7  |               |
| 0.8   | 20 | 0.0  | 0.3  | 6.7  | 0.8  | 0.0  | 0.0  | 62.0  | 2,890 +/-60   |
| 1.3   | 24 | 0.0  | 0.3  | 8.5  | 3.8  | 0.0  | 0.0  | 76.8  |               |
| 1.5   | 2  | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  | 0.6  | 15.2  |               |
| 1.6   | 21 | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 72.6  |               |
| 2.0   | 22 | 0.0  | 0.0  | 3.1  | 0.0  | 0.0  | 0.0  | 67.2  | 16760+/-120   |
| 2.1   | 23 | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  | 0.0  | 16.2  | 23510+/-260   |
| 2.4   | 3  | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  | 0.0  | 9.1   |               |
| 2.8   | 4  | 0.0  | 0.0  | 1.9  | 0.0  | 0.0  | 0.0  | 44.6  |               |
| 4.0   | 5  | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  | 0.3  | 61.9  | 39,350 +/-800 |
| 7.0   | 7  | 0.0  | 0.0  | 0.9  | 0.0  | 0.3  | 0.0  | 87.1  |               |
| 8.0   | 8  | 0.3  | 0.0  | 2.1  | 0.0  | 0.0  | 0.6  | 87.2  |               |
| 10.0  | 9  | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.3  | 90.9  |               |
| 11.0  | 10 | 0.6  | 0.0  | 2.5  | 0.0  | 0.0  | 0.0  | 87.6  |               |
| 13.0  | 11 | 0.0  | 0.0  | 2.4  | 0.0  | 0.0  | 0.0  | 88.0  |               |
| 14.0  | 12 | 0.0  | 0.3  | 0.6  | 0.0  | 0.0  | 0.0  | 90.9  |               |
| 16.0  | 13 | 0.3  | 0.0  | 4.3  | 0.0  | 0.0  | 0.0  | 85.4  |               |
| 17.5  | 14 | 0.8  | 0.3  | 7.7  | 0.0  | 0.0  | 0.8  | 83.7  |               |
| 19.0  | 15 | 0.6  | 0.3  | 5.9  | 0.3  | 0.0  | 0.0  | 83.5  |               |
| 20.5  | 16 | 0.0  | 0.0  | 5.7  | 0.3  | 0.3  | 0.0  | 82.2  |               |
| 22.0  | 17 | 0.0  | 0.0  | 3.9  | 0.0  | 0.0  | 0.0  | 82.3  |               |

**CORE S85**

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY | MICA | GYP  | LITH | AGG  | FORB |
|-------|----|-------|-------|-------|-------|-----|------|------|------|------|------|
| 0.0   | 1  | 54.12 | 20.00 | 25.87 | 27.3  | 0.0 | 0.3  | 9.1  | 0.3  | 3.8  | 0.0  |
| 0.5   | 2  | --    | --    | --    | 2.9   | 0.8 | 0.0  | 36.1 | 0.0  | 1.9  | 0.3  |
| 1.0   | 3  | --    | --    | --    | 13.9  | 0.0 | 0.0  | 64.8 | 0.3  | 11.1 | 0.0  |
| 2.0   | 4  | --    | --    | --    | 19.73 | 1.6 | 0.0  | 18.9 | 0.3  | 6.1  | 0.0  |
| 2.5   | 5  | --    | --    | --    | 13.1  | 0.0 | 0.0  | 8.4  | 0.0  | 11.7 | 0.0  |
| 3.5   | 6  | --    | --    | --    | 10.1  | 0.3 | 0.0  | 44.2 | 0.0  | 12.5 | 0.0  |
| 5.0   | 7  | --    | --    | --    | 6.0   | 0.0 | 0.0  | 38.5 | 0.0  | 12.5 | 0.0  |

## APPENDIX 2.—Continued.

## CORE S85

| DEPTH | NO | GSHF | PSHF | SHLO | CARBT | CARBON-14     |
|-------|----|------|------|------|-------|---------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.6  | 58.6  |               |
| 0.5   | 2  | 0.0  | 0.0  | 2.6  | 55.4  |               |
| 1.0   | 3  | 0.0  | 0.0  | 0.3  | 9.7   |               |
| 2.0   | 4  | 0.0  | 0.3  | 1.9  | 51.2  |               |
| 2.5   | 5  | 0.3  | 0.3  | 0.0  | 66.1  | 20,300 +/-270 |
| 3.5   | 6  | 0.0  | 0.0  | 1.2  | 31.4  |               |
| 5.0   | 7  | 0.0  | 0.0  | 0.0  | 43.0  |               |

Samples 8 and deeper not displayed; a C-14 date for sample 12 in core I (14-24 cm depth) is > 39,730.

## APPENDIX 2.—Continued.

## CORE S86

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY  | MICA | GLAU | GVP  | LITH  | AGG   | PLTM  |
|-------|----|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| 0.0   | 1  | 1.57  | 86.20 | 12.23 | 40.73 | 5.63 | 1.32 | 0.0  | 1.66 | 6.62  | 25.50 | 18.54 |
| 1.53  | 2  | 13.93 | 79.86 | 6.21  | 68.81 | 5.50 | 1.83 | 0.0  | 3.98 | 5.20  | 12.23 | 2.14  |
| 3.05  | 3  | 10.85 | 83.03 | 6.12  | 77.56 | 7.05 | 0.64 | 0.0  | 3.53 | 1.28  | 7.05  | 2.88  |
| 3.65  | 29 | 5.88  | 87.51 | 6.60  | 69.93 | 0.98 | 0.0  | 0.0  | 1.31 | 26.47 | 0.65  | 0.0   |
| 4.12  | 30 | 7.44  | 84.41 | 8.15  | 82.75 | 0.96 | 0.0  | 0.64 | 0.0  | 0.0   | 10.86 | 2.24  |
| 4.58  | 4  | 13.34 | 82.29 | 4.37  | 72.22 | 3.40 | 0.62 | 0.0  | 2.47 | 1.54  | 15.74 | 3.70  |
| 5.22  | 31 | 4.18  | 84.26 | 11.56 | 72.96 | 4.09 | 0.63 | 0.0  | 1.89 | 1.26  | 17.61 | 0.31  |
| 5.65  | 32 | 3.89  | 88.98 | 7.13  | 82.97 | 1.58 | 1.26 | 0.32 | 0.63 | 0.0   | 7.26  | 5.05  |
| 6.1   | 5  | 13.19 | 76.25 | 10.56 | 81.62 | 4.98 | 2.49 | 0.0  | 2.80 | 0.0   | 7.17  | 0.93  |
| 6.56  | 33 | 5.15  | 85.94 | 8.91  | 87.18 | 1.92 | 0.32 | 0.0  | 0.64 | 2.24  | 4.49  | 1.92  |
| 7.3   | 34 | 25.10 | 70.88 | 4.02  | 82.62 | 3.61 | 1.31 | 0.0  | 1.97 | 2.30  | 8.20  | 0.0   |
| 7.63  | 6  | 54.26 | 38.84 | 6.90  | 82.78 | 4.97 | 1.66 | 0.0  | 3.97 | 0.0   | 3.97  | 0.99  |
| 8.10  | 35 | 15.49 | 77.62 | 6.89  | 72.31 | 0.98 | 0.65 | 0.0  | 1.63 | 0.0   | 23.78 | 0.65  |
| 8.54  | 36 | 22.29 | 69.72 | 7.99  | 82.11 | 2.24 | 0.96 | 0.0  | 1.60 | 0.0   | 13.10 | 0.0   |
| 9.15  | 7  | 4.04  | 83.89 | 12.07 | 70.46 | 3.69 | 0.92 | 0.0  | 2.46 | 0.0   | 18.15 | 3.08  |
| 10.68 | 8  | 4.41  | 81.76 | 13.82 | 72.90 | 4.84 | 2.58 | 0.0  | 3.23 | 0.0   | 11.94 | 3.55  |
| 11.45 | 37 | 61.33 | 29.16 | 9.51  | 80.91 | 7.58 | 1.82 | 0.61 | 1.82 | 1.82  | 3.94  | 0.0   |
| 11.8  | 38 | 28.06 | 53.08 | 18.87 | 60.95 | 5.08 | 0.63 | 0.63 | 1.27 | 1.90  | 28.89 | 0.63  |
| 12.2  | 9  | 12.38 | 78.84 | 8.78  | 77.48 | 3.97 | 0.99 | 0.0  | 3.64 | 0.0   | 8.28  | 4.64  |
| 12.80 | 39 | 21.61 | 73.72 | 4.67  | 64.39 | 4.15 | 4.75 | 0.59 | 1.19 | 2.97  | 17.51 | 2.67  |
| 13.27 | 40 | 37.40 | 53.52 | 9.07  | 68.14 | 2.95 | 2.65 | 0.29 | 1.18 | 0.88  | 11.21 | 12.09 |
| 13.73 | 10 | 33.81 | 60.49 | 5.70  | 64.86 | 1.28 | 7.67 | 0.0  | 5.11 | 0.0   | 18.21 | 1.92  |
| 14.18 | 41 | 25.27 | 65.73 | 9.00  | 51.91 | 1.59 | 5.73 | 0.64 | 0.0  | 0.64  | 26.11 | 12.42 |
| 14.75 | 42 | 29.88 | 62.85 | 7.27  | 78.57 | 1.86 | 3.73 | 0.93 | 0.0  | 2.80  | 8.70  | 1.86  |
| 15.25 | 11 | 54.42 | 34.69 | 10.89 | 75.32 | 3.53 | 2.88 | 0.0  | 2.56 | 0.0   | 10.58 | 4.17  |
| 16.16 | 43 | 25.76 | 64.32 | 9.92  | 69.69 | 4.38 | 1.56 | 0.0  | 1.56 | 4.06  | 17.50 | 1.25  |
| 16.78 | 12 | 70.06 | 19.79 | 10.15 | 85.95 | 4.90 | 0.65 | 0.0  | 0.65 | 0.0   | 6.21  | 1.31  |
| 17.54 | 13 | --    | --    | --    | 81.91 | 6.25 | 0.0  | 0.0  | 3.29 | 4.28  | 3.29  | 0.0   |
| 19.06 | 14 | --    | --    | --    | 83.07 | 5.43 | 0.0  | 0.0  | 1.60 | 4.47  | 4.15  | 0.0   |
| 20.59 | 15 | --    | --    | --    | 87.58 | 5.56 | 1.96 | 1.31 | 0.33 | 1.63  | 1.31  | 0.33  |
| 22.11 | 16 | --    | --    | --    | 85.85 | 4.50 | 0.0  | 0.64 | 2.57 | 2.57  | 2.25  | 0.64  |





## APPENDIX 2.—Continued.

## CORE S86

| DEPTH | NO | PSHW | SHLO | SPNG | CARBT | Fe-OXIDE | CARBON-14  |
|-------|----|------|------|------|-------|----------|------------|
| 0.0   | 1  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      | 1690+/- 80 |
| 1.53  | 2  | 0.0  | 0.31 | 0.0  | 0.0   | 0.0      |            |
| 3.05  | 3  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |            |
| 3.65  | 29 | 0.0  | 0.0  | 0.0  | 0.65  | 0.0      |            |
| 4.12  | 30 | 0.32 | 0.0  | 0.0  | 1.60  | 0.64     |            |
| 4.58  | 4  | 0.0  | 0.31 | 0.0  | 0.0   | 0.0      |            |
| 5.22  | 31 | 0.0  | 0.0  | 0.0  | 0.0   | 1.26     |            |
| 5.65  | 32 | 0.0  | 0.0  | 0.0  | 0.63  | 0.32     |            |
| 6.1   | 5  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |            |
| 6.56  | 33 | 0.0  | 0.0  | 0.0  | 0.64  | 0.64     |            |
| 7.3   | 34 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      | 4910+/-100 |
| 7.63  | 6  | 0.0  | 0.0  | 0.0  | 1.66  | 0.0      |            |
| 8.10  | 35 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |            |
| 8.54  | 36 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |            |
| 9.15  | 7  | 0.0  | 0.0  | 0.0  | 1.23  | 0.0      |            |
| 10.68 | 8  | 0.0  | 0.0  | 0.0  | 0.97  | 0.0      |            |
| 11.45 | 37 | 0.0  | 0.0  | 0.0  | 1.52  | 0.0      |            |
| 11.8  | 38 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |            |
| 12.2  | 9  | 0.0  | 0.0  | 0.0  | 0.99  | 0.0      |            |
| 12.80 | 39 | 0.0  | 0.0  | 1.19 | 0.59  | 0.0      |            |
| 13.27 | 40 | 0.0  | 0.0  | 0.59 | 0.0   | 0.0      |            |
| 13.73 | 10 | 0.0  | 0.0  | 0.0  | 0.96  | 0.0      |            |
| 14.18 | 41 | 0.0  | 0.0  | 0.96 | 0.0   | 0.0      |            |
| 14.75 | 42 | 0.0  | 0.0  | 1.55 | 0.0   | 0.0      |            |
| 15.25 | 11 | 0.0  | 0.0  | 0.0  | 0.96  | 0.0      |            |
| 16.16 | 43 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      | 6430+/-110 |
| 16.78 | 12 | 0.0  | 0.0  | 0.0  | 0.33  | 0.0      |            |
| 17.54 | 13 | 0.0  | 0.0  | 0.0  | 0.99  | 0.0      |            |
| 19.06 | 14 | 0.0  | 0.0  | 0.0  | 1.28  | 0.0      |            |
| 20.59 | 15 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |            |
| 22.11 | 16 | 0.0  | 0.0  | 0.0  | 0.96  | 0.0      |            |

## APPENDIX 2.—Continued.

## CORE S86

| DEPTH | NO | PSHW | SHLO | SPNG | CARBT | Fe OXIDE | CARBON-14 |
|-------|----|------|------|------|-------|----------|-----------|
| 23.63 | 17 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 25.16 | 18 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 26.69 | 19 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 28.21 | 20 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 29.74 | 21 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 31.26 | 22 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 32.79 | 23 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 34.31 | 24 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 35.84 | 25 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 37.36 | 26 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 38.89 | 27 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |
| 40.41 | 28 | 0.0  | 0.0  | 0.0  | 0.0   | 0.0      |           |

## APPENDIX 2.—Continued.

## CORE S87

| DEPTH | NO | SAND  | SILT  | CLAY  | LT    | HVY   | MICA | GLAU | GYP  | LITH | AGG   | PLTM  |
|-------|----|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|
| 0.0   | 1  | 35.66 | 55.69 | 8.65  | 36.25 | 5.50  | 0.97 | 0.0  | 1.62 | 0.0  | 54.69 | 0.65  |
| 0.61  | 2  | 19.48 | 64.83 | 15.70 | 61.49 | 11.04 | 1.19 | 0.0  | 2.09 | 0.0  | 20.30 | 3.28  |
| 1.53  | 3  | 12.82 | 81.44 | 5.74  | 61.22 | 0.64  | 0.96 | 0.0  | 1.92 | 0.0  | 31.73 | 1.92  |
| 2.13  | 31 | 3.78  | 89.88 | 6.33  | 61.88 | 1.56  | 1.56 | 0.0  | 1.88 | 0.0  | 30.63 | 2.50  |
| 2.60  | 4  | 5.67  | 83.34 | 10.99 | 44.21 | 0.89  | 3.26 | 0.0  | 1.78 | 0.0  | 47.48 | 1.78  |
| 3.20  | 32 | 4.66  | 86.67 | 8.67  | 58.06 | 0.97  | 0.0  | 0.0  | 1.94 | 0.0  | 37.42 | 1.61  |
| 3.66  | 33 | 4.60  | 80.61 | 14.79 | 73.19 | 2.21  | 0.0  | 0.0  | 0.63 | 0.0  | 19.87 | 3.15  |
| 4.12  | 5  | 11.53 | 59.79 | 28.68 | 61.20 | 2.84  | 0.32 | 0.0  | 0.63 | 0.0  | 33.12 | 0.95  |
| 4.57  | 34 | 8.69  | 84.66 | 6.65  | 55.23 | 4.65  | 0.87 | 0.0  | 3.20 | 0.0  | 32.85 | 2.33  |
| 5.03  | 35 | 7.99  | 86.20 | 5.81  | 65.30 | 2.21  | 0.95 | 0.0  | 2.84 | 0.0  | 26.18 | 1.26  |
| 5.64  | 6  | 12.74 | 65.45 | 21.82 | 68.83 | 3.90  | 1.62 | 0.0  | 0.0  | 0.0  | 25.00 | 0.65  |
| 6.10  | 36 | 11.99 | 79.91 | 8.10  | 73.68 | 1.97  | 0.0  | 0.0  | 2.30 | 0.0  | 20.07 | 1.97  |
| 6.70  | 37 | 8.71  | 81.84 | 9.45  | 69.77 | 1.29  | 0.32 | 0.0  | 0.94 | 0.0  | 27.01 | 0.0   |
| 7.17  | 7  | 10.41 | 74.40 | 15.19 | 35.62 | 0.98  | 0.0  | 0.0  | 0.65 | 0.0  | 59.15 | 2.29  |
| 7.62  | 38 | 9.52  | 83.59 | 6.89  | 7.81  | 0.94  | 0.63 | 0.0  | 0.63 | 0.0  | 79.06 | 10.31 |
| 8.08  | 39 | 19.12 | 74.25 | 6.63  | 9.18  | 0.63  | 0.0  | 0.0  | 0.32 | 0.0  | 81.65 | 8.23  |
| 8.69  | 8  | 2.71  | 80.83 | 16.46 | 68.77 | 1.26  | 0.0  | 0.0  | 0.95 | 0.0  | 18.93 | 9.15  |
| 8.85  | 40 | 8.32  | 86.41 | 5.27  | 32.68 | 1.63  | 0.0  | 0.0  | 0.98 | 0.0  | 62.75 | 1.96  |
| 9.46  | 9  | 77.43 | 11.51 | 11.06 | 95.00 | 4.67  | 0.0  | 0.0  | 0.0  | 0.33 | 0.0   | 0.0   |
| 10.10 | 10 | --    | --    | --    | 95.41 | 1.97  | 0.0  | 0.0  | 0.33 | 1.97 | 0.33  | 0.0   |
| 11.44 | 11 | --    | --    | --    | 92.79 | 3.67  | 0.0  | 0.0  | 0.33 | 3.28 | 0.0   | 0.0   |
| 12.96 | 12 | --    | --    | --    | 94.44 | 2.61  | 0.33 | 0.33 | 0.33 | 1.31 | 0.0   | 0.65  |
| 14.49 | 13 | --    | --    | --    | 83.65 | 1.57  | 0.0  | 0.31 | 2.20 | 2.83 | 9.43  | 0.0   |
| 16.01 | 14 | --    | --    | --    | 82.57 | 3.62  | 0.0  | 0.33 | 1.32 | 3.62 | 8.55  | 0.0   |
| 17.54 | 15 | --    | --    | --    | 94.08 | 0.99  | 0.0  | 0.0  | 0.66 | 2.63 | 1.32  | 0.33  |
| 19.06 | 16 | --    | --    | --    | 92.83 | 3.58  | 0.33 | 0.0  | 0.33 | 1.95 | 0.98  | 0.0   |
| 20.59 | 17 | --    | --    | --    | 91.03 | 2.66  | 0.33 | 1.00 | 0.33 | 1.66 | 2.33  | 0.33  |
| 22.11 | 18 | --    | --    | --    | 90.43 | 2.64  | 0.0  | 0.66 | 1.65 | 1.98 | 0.33  | 1.98  |
| 23.64 | 19 | --    | --    | --    | 81.96 | 7.28  | 1.58 | 0.95 | 1.27 | 4.75 | 1.27  | 0.95  |
| 25.16 | 20 | --    | --    | --    | 95.41 | 1.31  | 0.0  | 0.0  | 0.98 | 1.64 | 0.0   | 0.66  |
| 26.69 | 21 | --    | --    | --    | 87.62 | 3.26  | 0.0  | 0.0  | 1.95 | 4.89 | 1.30  | 0.33  |

## APPENDIX 2.—Continued.

## CORE S87

| DEPTH | NO | SAND | SILT | CLAY | LT    | HVY  | MICA | GLAU | GYP  | LITH | AGG  | PLTM |
|-------|----|------|------|------|-------|------|------|------|------|------|------|------|
| 28.21 | 22 | --   | --   | --   | 95.35 | 0.66 | 0.33 | 0.0  | 1.00 | 2.66 | 0.0  | 0.0  |
| 29.74 | 23 | --   | --   | --   | 95.05 | 1.65 | 0.0  | 0.33 | 0.66 | 2.31 | 0.0  | 0.0  |
| 31.26 | 24 | --   | --   | --   | 95.13 | 2.27 | 0.65 | 0.0  | 0.32 | 1.62 | 0.0  | 0.0  |
| 32.79 | 25 | --   | --   | --   | 94.17 | 2.27 | 0.0  | 0.97 | 0.97 | 1.62 | 0.0  | 0.0  |
| 34.31 | 26 | --   | --   | --   | 96.03 | 0.66 | 0.0  | 0.33 | 0.33 | 1.99 | 0.66 | 0.0  |
| 35.84 | 27 | --   | --   | --   | 90.16 | 0.98 | 0.0  | 0.66 | 0.33 | 3.28 | 3.93 | 0.0  |
| 37.36 | 28 | --   | --   | --   | 95.47 | 0.32 | 0.0  | 0.0  | 0.0  | 2.27 | 1.94 | 0.0  |
| 40.41 | 30 | --   | --   | --   | 84.33 | 2.82 | 0.31 | 0.0  | 1.88 | 5.02 | 5.02 | 0.63 |



## APPENDIX 2.—Continued.

| CORE S87 |    |      |          |            |  |  |
|----------|----|------|----------|------------|--|--|
| DEPTH    | NO | CARB | Fe OXIDE | CARBON-14  |  |  |
| 0.0      | 1  | 0.32 | 0.0      |            |  |  |
| 0.61     | 2  | 0.60 | 0.0      | 1720+/-80  |  |  |
| 1.53     | 3  | 1.60 | 0.0      |            |  |  |
| 2.13     | 31 | 0.0  | 0.0      |            |  |  |
| 2.60     | 4  | 0.59 | 0.0      |            |  |  |
| 3.20     | 32 | 0.0  | 0.0      |            |  |  |
| 3.66     | 33 | 0.0  | 0.95     |            |  |  |
| 4.12     | 5  | 0.95 | 0.0      |            |  |  |
| 4.57     | 34 | 0.0  | 0.87     |            |  |  |
| 5.03     | 35 | 0.0  | 1.26     |            |  |  |
| 5.64     | 6  | 0.0  | 0.0      |            |  |  |
| 6.10     | 36 | 0.0  | 0.0      |            |  |  |
| 6.70     | 37 | 0.0  | 0.64     |            |  |  |
| 7.17     | 7  | 1.31 | 0.0      |            |  |  |
| 7.62     | 38 | 0.0  | 0.63     |            |  |  |
| 8.08     | 39 | 0.0  | 0.0      |            |  |  |
| 8.69     | 8  | 0.95 | 0.0      |            |  |  |
| 8.85     | 40 | 0.0  | 0.0      | 7030+/-130 |  |  |
| 9.46     | 9  | 0.0  | 0.0      |            |  |  |
| 10.10    | 10 | 0.0  | 0.0      |            |  |  |
| 11.44    | 11 | 0.0  | 0.0      |            |  |  |
| 12.96    | 12 | 0.0  | 0.0      |            |  |  |
| 14.49    | 13 | 0.0  | 0.0      |            |  |  |
| 16.01    | 14 | 0.0  | 0.0      |            |  |  |
| 17.54    | 15 | 0.0  | 0.0      |            |  |  |
| 19.06    | 16 | 0.0  | 0.0      |            |  |  |
| 20.59    | 17 | 0.33 | 0.0      |            |  |  |
| 22.11    | 18 | 0.33 | 0.0      |            |  |  |
| 23.64    | 19 | 0.0  | 0.0      |            |  |  |
| 25.16    | 20 | 0.0  | 0.0      |            |  |  |
| 26.69    | 21 | 0.65 | 0.0      |            |  |  |

## APPENDIX 2.—Continued.

| CORE S87 |    | CARBON-14 |          |  |
|----------|----|-----------|----------|--|
| DEPTH    | NO | CARBT     | Fe OXIDE |  |
| 28.21    | 22 | 0.0       | 0.0      |  |
| 29.74    | 23 | 0.0       | 0.0      |  |
| 31.26    | 24 | 0.0       | 0.0      |  |
| 32.79    | 25 | 0.0       | 0.0      |  |
| 34.31    | 26 | 0.0       | 0.0      |  |
| 35.84    | 27 | 0.66      | 0.0      |  |
| 37.36    | 28 | 0.0       | 0.0      |  |
| 40.41    | 30 | 0.0       | 0.0      |  |

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